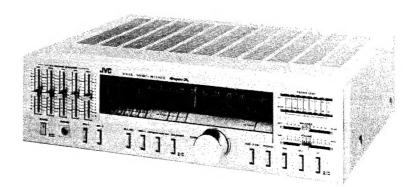
JVC



R-S33L

STEREO RECEIVER



No. 2519 FEB, 1980

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Warning:

When replacing the parts marked with \triangle , be sure to use the designated parts to ensure safety.

1. Specifications

FM Tuner Section (Figures are based upon IHF standard)

: 87.6 MHz - 108 MHz Tuning Range Usable Sensitivity (IHF) : 10.3 dBf (1.8 μ V/300 Ω)

50 dB Quieting Sensitivity

Mono : 14.8 dBf (3.0 μ V/300 Ω) : 38.3 dBf (45 μ V/300 Ω) Stereo

Distortion

Mono : 0.15 % (1 kHz) : 0.3 % (1 kHz) Stereo

Signal to Noise Ratio

: 82 dB (74 dB, DIN) Mono : 70 dB (65 dB, DIN) Stereo : 65 dB, ±400 kHz Selectivity (35 dB, ±300 kHz, DIN)

: 1.0 dB Capture Ratio

: 90 dB at 98 MHz IF Rejection Image Rejection : 60 dB at 98 MHz Stereo Separation : 45 dB at 1 kHz

MW Section

: 525 kHz - 1605 kHz Tuning Range : 300 μ V/m, 30 μ V Usable Sensitivity (External Antenna)

Signal to Noise Ratio : 50 dB

: 0.5 % at 10 mV/m Distortion : 40 dB, ±10 kHz Selectivity

LW Section

: 150 kHz - 350 kHz Tuning Range Usable Sensitivity : $500 \,\mu\text{V/m}$, $300 \,\mu\text{V}$

(External Antenna)

Signal to Noise Ratio : 50 dB

Distortion : 0.5 % at 10 mV/m Selectivity : 40 dB, ±10 kHz

36 dB, ±9 kHz

Amplifier Section

RMS Power : 40 watts per channel at 8 ohms

(Both channels driven, from 20 Hz to 20 kHz)

RMS Power : 42 watts per channel at 8 ohms

Total Harmonic Distortion: 0.007 % at rated power,

20-20 kHz, $8~\Omega$

0.003 % at rated power,

1 kHz, 8 Ω

Signal to Noise Ratio : Phono 77 dB (IHF short circuited (75 dB, New IHF) A network) Aux/Tape 98 dB

(75 dB, New IHF)

S.E.A. Controls

: 40 Hz, 250 Hz, 1 kHz, 5 kHz, Center Frequencies

15 kHz

Control Range : ±12 dB

Input Sensitivity/

Impedance : Phono $2.5 \text{ mV}/47 \text{ k}\Omega$

Aux 150 mV/50 k Ω 150 mV/50 k Ω Tape Tape (DIN) 150 mV/50 k Ω

Phono Overload : 140 mV at 1 kHz (THD 0.05 %)

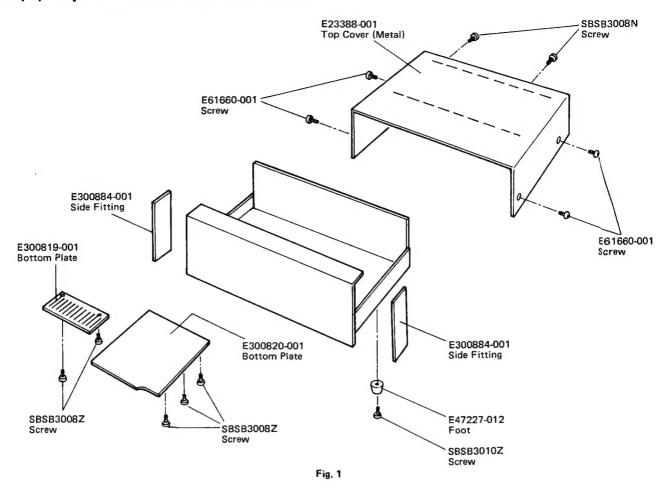
: See page 18 **Power Consumption**

Dimensions and Weight

	Dimensions		Weight
Height	Width	Depth	Net
11.9 cm	42.2 cm	34.5 cm	7.7 kg

2. Removal Procedures

2-(1) Top Cover and Bottom Plates



2-(2) Power Transistors

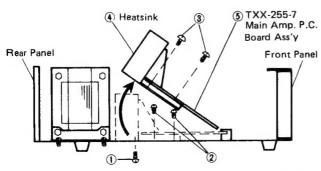


Fig. 2

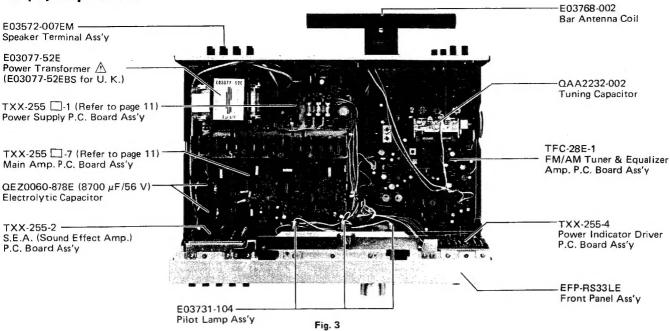
Procedures:

- Step 1: Remove the bottom plate from chassis and 2 screws

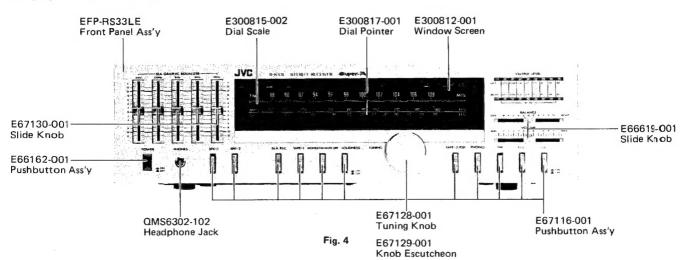
 ① from heatsink ④.
- Step 2: Remove 4 screws 2 .
- Step 3: Raise TXX-255-7 (5) from chassis as arrowed on Fig. 2 and then resolder the power transstor's leads.
- Step 4: Remove 4 screws ③ and heatsink from T XX-255-7 and then replace the power transistors.

3. Main Parts Location

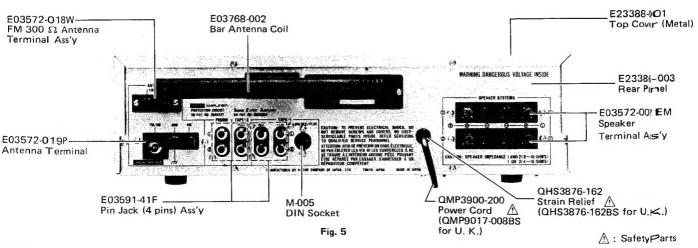
3-(1) Top View



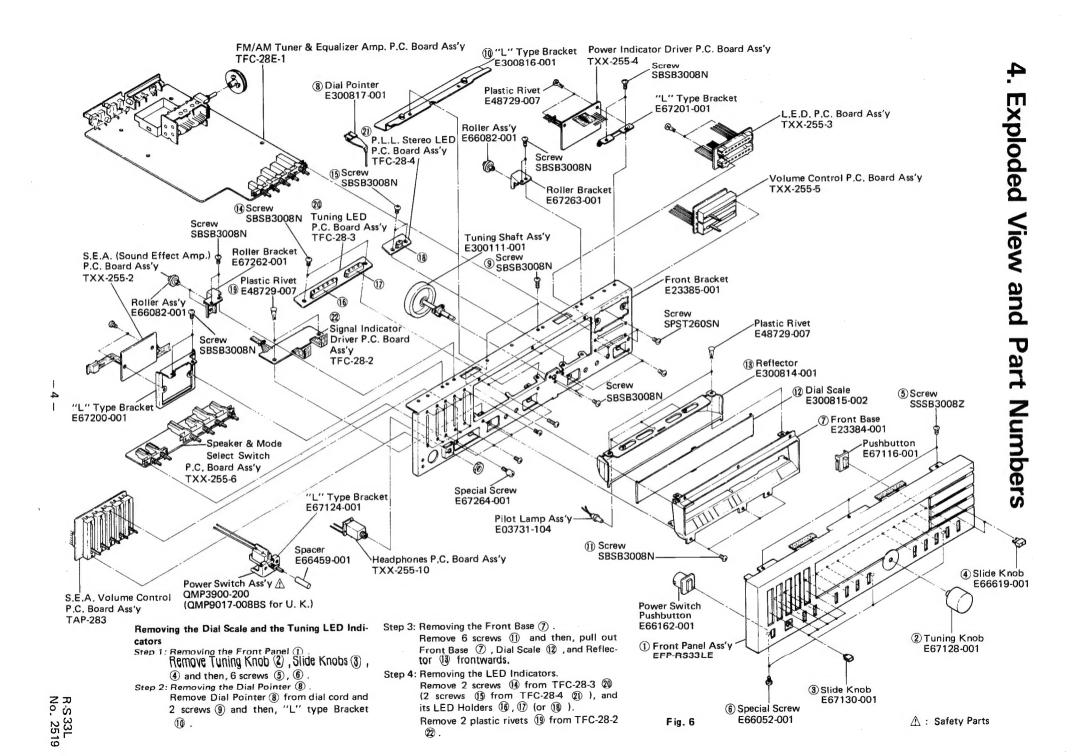
3-(2) Front View



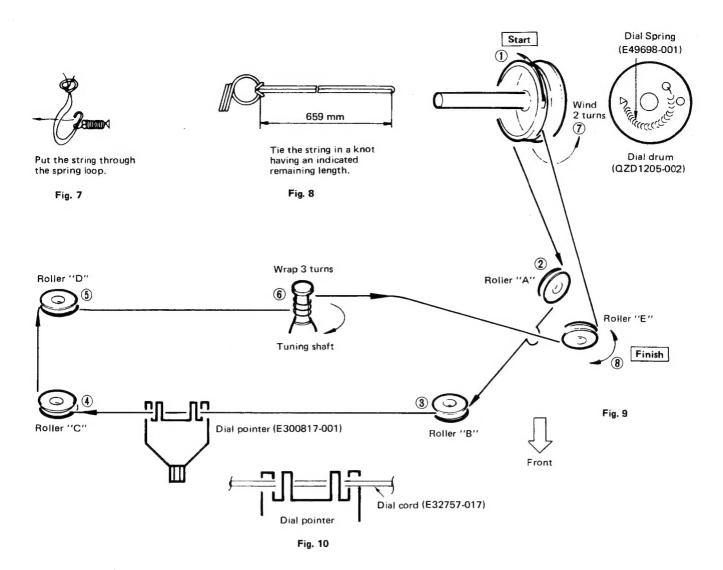
3-(3) Rear View



R-S33L No. 2519



5. Dial Stringing Procedures



- (1) Remove dial pointer and old cord.
- (2) Tie end of new dial cord to one end of dial spring, connect other end of dial spring of bottom right eye inside dial drum.
- (3) Rotate the tuning capacitor dial drum to its maximum counterclockwise.
- (4) Run the dial cord through the slot in the rim of the dial drum. See step ①.
- (5) Guide the dial cord around, over and under rollers "A", "B", "C" and "D". Keep the dial cord taut during this procedure. See step ② to ⑤.
- (6) Pull the dial cord taut and wrap 3 turns counterclockwise around tuning shaft. See step (6).

- (7) Guide the dial cord over the dial drum and wind 2 turns clockwise. See step 7.
- (8) Pull the dial cord taut and set it around roller "E". See step (8).
- (9) Turn the tuning shaft to rotate the dial drum fully counterclockwise and fully clockwise to distribute the tensioning along the dial cord.
- (10) Place the dial cord over and under the tabs on the rear of the dial pointer and place the dial pointer on the top of the dial rail. See Fig. 10.
- (11) Turn the tuning shaft clockwise. Slide the dial pointer to zero(0) calibration marker on the logging scale while holding tuning shaft fully clockwise. Cement the dial pointer to the dial cord to prevent slippage. Allow cement to dry thoroughly.

6. FM/AM Tuner Alignment Procedures

OSC C114 L103 L102 L101 0 IC101 0 T131 R138 (A) MUTING TC5 TC2 CENTER OSC (B) THD FREE RUN IC102 IC103 109 TEST POINT R168 SEPARATION MW ANT OSC 0 ANT C374 LW OSC C369 0 0 O L351 MW C361 TFC-28E-1 MW FM/AM Tuner P.C. Board Ass'y

Fig. 11

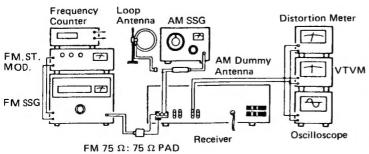


Fig. 12

6-(1) FM Section

Descriminator, Center Meter, Distortion and Signal Gain

- 1. Press to FM position.
- 2. Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
- 3. Connect an Oscilloscope, Distortion Meter and VTVM to the Rec. Out jacks on the rear panel.
- 4. Tune to a frequency where there is no broadcasting.
- 5. Adjust a core indicated arrow (A) of T131 so that the FM Tuning L.E.D. illuminates the center position.
- 6. Set the RF generator to 98 MHz.
- 7. Set the dial pointer to 98 MHz.
- 8. Adjust a core indicated arrow B of T131 so that the distortion is minimized at a value less than 0.4 %.

Tracking and Sensitivity

Precaution: No adjustment is necessary. The tracking and sensitivity have been adjusted properly and completely at the factory. If any special reason occasioned, take the following procedures carefully.

Low Frequency

- 1. Connect an RF generator the antenna terminals on the rear panel through a dummy antenna.
- 2. Set an RF generator to 88 MHz, a modulation of 1 kHz and a deviation of 75 kHz to provide an input of $2 \mu V$.
- 3. Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- 4. Set the dial pointer to 88 MHz.
- 5. Adjust the three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequency

- 6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of $2 \mu V$.
- 7. Set the dial pointer to 108 MHz.
- 8. Adjust the FM trimmers C114, TC2 and TC1 in the tuning gang to maximize the output.
- 9. Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained

Multiplex and Stereo Separation Multiplex

- 1. Set the Stereo signal generator as follows: 400 Hz modulation frequency, 7.5 kHz deviation pilot, 67.5 kHz main and sub carriers. Connect its output to an RF generator.
- 2. Connect an RF generator to the antenna terminals through a dummy antenna.
- 3. Connect a VTVM, an Oscilloscope and a Distortion Meter to the Rec. Out jacks on the rear panel.
- /TVM 4. Set the RF generator to 98 MHz and output of 1 mV.
 - 5. Set the dial pointer to 98 MHz.
 - 6. Connect the Frequency Counter to 19 kH; Test Point. (TP 109).
 - 7. Switch off the pilot signal of Stereo Modulator.
 - 8. Adjust R165 so that the frequency counter indicates 19 kHz (0~-50 Hz).

Stereo Separation

- Switch the selector of Stereo Modulator to left channel modulation.
- Adjust R168 so that the output of right channel is minimized.
- Switch the selector of the modulator to right channel modulation.
- 12. Adjust R168 so that the left channel is minimized.
- Set R168 to a average, if the separation of left and right is different.

Muting Level

Note: No adjustment is necessary. However, if the checkup is required, take the following steps.

- Release the MONO/FM MUTE OFF pushbutton during this adjustment procedures.
- Connect a VTVM and an Oscilloscope to the Rec. Out jacks on the rear panel.
- 3. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 8 μ V.
- Turn R138 clockwise and remember the point (or position) at which the muting ceases operating.
- 5. Turn R138 counterclockwise slightly so that the output level drops by 1 dB.
- 6. Attenuate the output of the RF generator to 2 dB from $8\,\mu\text{V}$ of step 2 and check that the muting is still operating.

6-(2) MW (LW) Section

Note: () for LW Alignment Procedures

Tracking and Sensitivity

Low Frequency

- Connect the RF generator to the antenna terminals on the rear panel, set this to 600 kHz (160 kHz) with 30 % modulation at 400 Hz.
- Connect an AC VTVM and an oscilloscope to the Rec. out jacks on the rear panel.
- 3. Set the dial pointer to 600 kHz (160 kHz).
- Adjust OSC coil L351 (L352) and the ferrite bar antenna core to maximize the output signal. Left ferrite bar is for MW (right ferrite bar is for LW). Refer to photo below.

High Frequency

- Set the RF generator to 1400 kHz (350 kHz) with 30% modulation at 400 Hz.
- 6. Set the dial pointer to 1400 kHz (350 kHz).
- Adjust the trimmers C361 (C369) and C373 (C374) in the tuning gang so that the output signal is maximized.
- Repeat these high and low frequencies adjustment procedures alternately until maximum sensitivity is obtained.



MW/LW Ferrite Bar Antenna Adjustments

7. Power Amplifier Idling Current Adjustment Procedure

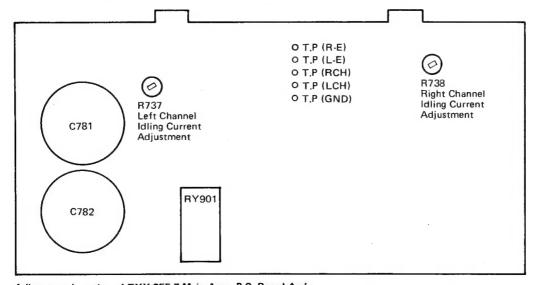


Fig. 13

Adjustment Location of TXX-255-7 Main Amp. P.C. Board Ass'y

Precaution:

- Allow the set to warm up at least 5 minutes before connecting a DC VTVM.
- (2) Must keep the heatsinks cooling to prevent overheating and consequent destruction of the semiconductor junction and set the volume control to minimum during these adjustment procedures.
- (): for Right channel Adjustment

Procedures:

- Turn R737 and (R738) fully counterclockwise before the power switch on.
- Connect a DC VTVM to the Test Point L-CH and L-E (R-CH and R-E).
- 3. Adjust R737 (R738) for DC VTVM reading of 5 mV.

8. Printed Circuit Board Ass'y and Parts list

8-(1) TFC-28E FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y

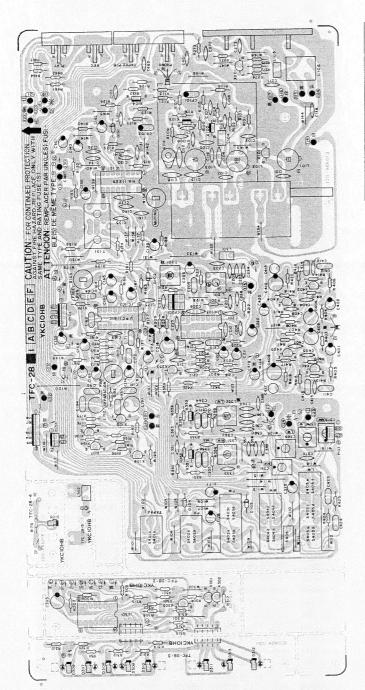


Fig. 14

Item No.	Part Number	Rating		Description	
		Pc	fT		Maker
X101	2SK168(E,F)	0.2 W		FET	Hitach
X102	2SC535(B,C)	0.1 W	940 MHz	Silicon	"
X103	2SC1342(B,C)	"	410 MHz	"	"
X104	2SC535(B,C)	"	940 MHz	"	"
X105	2SC458(C)	0.2 W	230 MHz	- 11	,,
X106	2SC458(C)	- "	"	"	"
X107	2SC458(C)	"	**	"	"
X108	2SA1029(C)	"	200 MHz	""	"
X201	2SC461(C)	"	230 MHz	"	"
X301	2SC458(C)	"	"	"	- 11

Board Ass'y

3 TFC-28-3 : Signal L.E.D. P.C. Board

Ass'y

PLL STEREO L.E.D. P.C.

Board Ass'y

(5) TFC-28-5 : Antenna Coil P.C. Board Ass'y

The specific symbols (赤,黑,白,... etc.) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

Transistors

1

③ Fig. 15

Item No.	Part Number	Part Number		Description	
		Pc	fT		Maker
X302	2SC458(C)	0.2 W	200 MHz	Silicon	Hitachi
X303	2SA1029(C)	"	200 MHz	"	"
X351	2SC461(B)	- 11	230 MHz	"	"
X352	2SC461(B)	- "	.,	"	"
X353	2SC458(C)	"	,,	"	"
X401	2SA872AV(E)	0,3 W	120 MHz	"	"
X402	2SA872AV(E)	-11	"	"	"
X403	2SC1775AV(F)	0.2 W	200 MHz	- "	"
X404	2SC1775AV(F)	- 11	- 11	"	"

Integrated Circuits

Item No.	Part Number	rt Number Rating Description		ription
		Pc		Maker
IC101	HA11225	0.59 W	IC	Hitachi
IC102	UPC1161C		"	NEC
IC103	HA1197	0.45 W	"	Hitachi
IC301	IR2434	1.0 W	"	Sharp

Diodes

Item No.	Part Number	Rating	Descrip	tion
				∠ laker
D101	1S2076-31		Silicon	Hitachi
D102	1S2076-31		"	"
D103	1S2076-31		"	"
D104	1S2076-31		"	**
D308	SLB-26UR		LED	Toyo Dengu
D309	SLB-26UR		- 11	"
D310	SLB-26UR		"	"
D312	SLB-26UR		"	"
D306	SLB-26UR		"	"
D307	SLB-26UR		"	"
D311	SLB-26UR		"	"
D313	SLB-26GG		- 11	11

Coils & Transformers

Item No.	Part Number	Rating	Description			
L101	E03477-031		FM ANT Coil			
L102	E03477-035		FM RF Coil			
L103	E03477-034		FM OSC Coil			
L104	E03522-1R5KY		Choke Coil			
L105	E03522-2R2KY		п			
L106	E03177-005		BALUN			
L191	Y00118-103		MPX 19 kHz Coil			
L192	Y00118-103		"			
L201	E03079-36		AM OSC Coil			
L202	E03522-391KY		Choke Coil			
L301	E03522-2R2KY		**			
L302	E3522-2R2KY		••			
L351	E03079-39		MW OSC Coil			
L352	E03079-38		LW OSC Coil			
T131	E03793-001		FM DET Coil			
T201	E03613-017		AM IFT			

Filters

Item No.	Part Number	Rating	Description
CF101	E03357-009		Ceramic Filter
CF102	E03357-009		,,
CF201	E03613-019		"

Capacitors

Item No.	Part Number	Rating		Description
C101	QCS31HJ-120Z	12 pF	50 V	Ceramic
C102	QCF31HP-103Z	0.01 µF	"	+1
C103	QCS31HJ-150Z	15 pF	**	"
C104	QCS21HJ-3R0	3 pF	**	"
C105	QCS21HJ-2R0	2 pF	**	**
C106	QCS31HJ-151Z	160 pF	"	**
C107	QCF31HP-103Z	0.01 μF	"	"
C108	QCF31HP-103Z	"	"	"
C109	QCF21HP-103	"	"	"
C110	QCT25CH-100Z	10 pF	"	**
C111	QCT25CH-220Z	22 pF	"	"
C112	QCT05CH-7R0	7 pF	"	"
C113	QCT05PH-120	12 pF	"	"
C114	QAT3001-014			Trimmer
C115	QCT05RH-120	12 pF	50 V	Ceramic
C116	QCS31HJ-221Z	220 pF	"	"
C121	QCF31HP-223Z	0.022 µF	"	"
C122	QCF31HP-223Z	".	"	"
C131	QCF31HP-223Z	••	"	"
C132	QCF31HP-223Z	**	**	"
C133	QCS31HJ-330Z	33 pF	"	"
C134	QCF31HP-223Z	0.022 µF	"	"
C135	QCF31HP-223Z	"	"	"
C136	QET61AR-107Z	100 μF	10 V	Electrolytic
C137	QCF21HP-223	0.022 μF	50 V	Ceramic
C138	QET61CR-476Z	47 μF	16 V	Electrolytic
C139	QET61HR-474Z	0.47 μF	50 V	"
C140	QCF31HP-223Z	0.022 µF	"	Ceramic
C141	QCF21HP-223	"	"	"
C142	QET61ER-106Z	10 μF	25 V	Electrolytic
C143	QET61HR-474Z	0.47 μF	50 V	"
C161	QET61ER-106Z	10 μF	25 V	"
C162	QFM31HK-473	0.047 µF		Mylar
C163	QCS31HJ-101Z	100 pF	"	Ceramic
C164	QFP31HJ-471	470 pF	"	Polypropyrene
C165	QEB51EM-335	3.3 µF	25 V	Low Leak Current
				Electrolytic
C166	QEB51HM-105	1 μF	50 V	"
C167	QEB51HM-224	0.22 μF	"	"
C168	QET61CR-107Z	100 μF	16 V	Electrolytic

Capacitors

Item No.	Part Number	Rating		Description
C169	QET61ER-106Z	10 μF	25 V	Electrolytic
C170	QET61ER-106Z	"	"	"
C171	QFM31HK-102Z	1000 pF	50 V	Mylar
C171 C172	QFM31HK-152Z QFM31HK-102Z	1500 pF 1000 pF	,,	"
C172	QFM31HK-152Z	1500 pF	"	"
C172	QET61HR-225Z	2.2 μF	,,	Electrolytic
C174	QET51HR-225	,,	"	"
C175	QCF31HP-223Z	$0.022~\mu F$	"	Ceramic
C177	QET61HR-474Z	0.47 μF	"	Electrolytic
C178	QET61HR-474Z	"	,,	"
C191	QFM31HK-682Z	6800 pF	,,	Mylar
C192 C193	QFM31HK-682Z QFM31HK-182Z	1800 pF	"	"
C194	QFM31HK-182Z	"	"	"
C201	QCF31HP-223Z	0.022 μF	"	Ceramic
C203	QCT25UJ-150Z	15 pF	"	"
C204	QCS31HJ-330Z	33 pF	"	"
C205	QFM31HK-103Z	0.01 μF	25.1/	Mylar
C206 C207	QET61ER-106Z QCF31HP-223Z	10 μF 0.022 μF	25 V 50 V	Electrolytic Ceramic
C207	QCF21HP-223	", "	30 V	"
C209	QCF31HP-223Z	"	"	"
C210	QCF31HP-223Z	"	11	"
C211	QET61HR-105Z	1 μF	"	Electrolytic
C212	QET61ER-106Z	10 μF	25 V	"
C213	QFM31HK-102Z	1000 pF 0.022 μF	50 V	Mylar
C214 C215	QCF31HP-223Z QCS31HJ-331Z	330 pF	"	,,
C216	QCF31HP-103Z	0.1 μF	**	"
C217	QCF31HP-223Z	0.022 μF	"	"
C218	QET61CR-476Z	47 μF	16 V	Electrolytic
C220	QET61ER-106Z	10 μF	25 V	"
C221	QCS31HJ-560Z	56 pF	50 V	Ceramic
C223	QCT26CH-151	150 pF	-,,	"
C224 C225	QCT26CH-151 QCS31HJ-470Z	47 pF	"	"
C226	QCS31HJ-330Z	33 pF	"	"
C271	QCF31HP-473Z	0.047 μF	"	"
C272	QCF31HP-473Z	"	"	"
C273	QCF31HP-223Z	0,022 μF		
C303	QET61CR-107Z QET61HR-105Z	100 μF 1 μF	16 V 50 V	Electrolytic
C303	QET61CR-107Z	100 μF	16 V	"
C351	QCF31HP-473Z	0.047 μF		Ceramic
C352	QCF31HP-473Z	"	"	
C353	QCS31HJ-100Z	10 pF	"	"
C355	QFM31HK-103Z	0.01 μF	<i>".</i>	Mylar
C356 C357	QFM31HK-153Z QCT25PH-151Z	0,015 μF 150 pF	",	Ceramic
C358	QCT25PH-151Z	" "	"	Ceramic
C358	QCS31HJ-330Z	33 pF	.,	,,
C360	QCT25UJ-100Z	10 pF	"	"
C361	QAT20001-001			Trimmer
C362	QCF31HP-473Z	0.047 μF		Ceramic
C363	QCF31HP-473Z		"	"
C364 C365	QCS31HJ-560Z QCT25UJ-270Z	56 pF 27 pF	<i>".</i>	",
C366	QCT25CH-680Z	68 pF	"	,,
C367	QCT25CH-680Z	"	"	"
C368	QCT25CH-220Z	22 pF	"	"
C369	QAT2001-005			Trimmer
C370	QFM31HK-223Z	0.022 μF	1	Mylar
C371	QFM31HK-333Z	0.033 μF	",	0
C372	QCS31HJ-180Z	18 pF	<u> </u>	Ceramic
C373	QAT2001-005 QAT2001-001			Trimmer
C374	QET61HR-474Z	0.47 μF	50 V	Electrolytic
C401	QET61HR-475Z	4.7 µF		"
C402	QET61HR-475Z	"	"	"

Capacitors

Capaci	Capacitors					
Item No.	Part Number	Rating		Description		
C403	QCS31HJ-471Z	470 pF	50 V	Ceramic		
C404	QCS31HJ-471Z	"	" "	"		
C405	QET60JR-227Z	220 μF	6.3 V	Electrolytic		
C406	QET60JR-227Z	"	"	**		
C407	QCS31HJ-470Z	47 pF	50 V	Ceramic		
C408	QCS31HJ-470Z	"	"	<i>"</i>		
C409	QET60JR-227Z	220 μF	6.3 V	Electrolytic		
C410	QET60JR-227Z	"	"	-		
C411	QFM31HK-153Z	0.015 μF	50 V	Mylar		
C412	QFM31HK-153Z	"	"	"		
C413	QFM31HK-472Z	4700 pF	••	"		
C414	QFM31HK-472Z	**	"	"		
C415	QCS31HJ-471Z	470 pF	"	Ceramic		
C416	QCS31HJ-471Z	"	"	"		
C417	QEZ0046-105	1 μF	"	Electrolytic		
C418	QEZ0046-105	"	**	"		
C419	QET61ER-476Z	47 μF	25 V	"		
C420	QET61ER-476Z	**	"	"		
C423	QFM31HK-153Z	0.015 μF		Mylar		
C424	QFM31HK-153Z	**	"	"		
C461	QCF31HP-223Z	0.022 μF	"	Ceramic		
C462	QCF31HP-473Z	0.047 µF	"	"		

Resistors

Item No.	Part Number	Rat	ing	Description	1
R101	QRD141J-391SY	390 Ω	1/4 W	Carbon	
R102	QRD141J-472SY	4.7 kΩ	"	"	
R103	ORD141J-223SY	22 kΩ	"	**	
R103	QRD141J-102SY	1 kΩ	"	**	
R105	QRD141J-101SY	100 Ω	"	**	
			**	,,	
R106	QRD141J-561SY	560 Ω	,,	,,	
R107	QRD141J-222SY	2.2 kΩ	,,	,,	
R108	QRD141J-103SY	10 kΩ	,,	**	
R109	QRD141J-682SY	6.8 kΩ	",	,,	
R110	QRD141J-272SY	2,7 kΩ			
R113	QRD149J-220S	22 Ω	"	"	A
R121	QRD141J-221SY	220 Ω	"	,,	
R122	QRD141J-273SY	27 kΩ	"	"	
R123	QRD141J-103SY	10 kΩ	"	"	
R124	QRD141J-471SY	470 Ω	"	"	
R125	QRD141J-101SY	100 Ω	"	**	
	QRD141J-331SY	330 Ω	,,	**	
R126)	"	,,	
R131	QRD141J-391SY	1	,,	,,	
R132	QRD141J-271SY		,,	,,	
R133	QRD141J-123SY		-		
R134	QRD141J-332SY	3.3 kΩ	"	"	
R135	QRD149J-470S	47 Ω	**	"	A
R136	QRD141J-472SY	4.7 kΩ	"	"	
R137	QRD141J-823SY	82 kΩ	"	"	
R138	QVP4A0B-223	22 kΩ		Variable	
R139	ORD141J-473SY	47 kΩ	1/4 W	Carbon	
R140	QRD141J-123SY		- 11	"	
R141	QRD141J-103SY		"	"	
R161	QRD141J-363SY		"	"	
R162	QRD141J-393S	39 kΩ	"		
	QRD141J-683SY	68 kΩ	",	**	
R163			.,		
R164	QRD141J-163SY			Variable	
R165	QVP4A0B-472	4.7 kΩ	1	1	
R166	QRD141J-102SY	1	1/4 W	Carbon	\wedge
R167	QRD149J-330S	33 Ω		<u> </u>	<u> </u>
R168	QVP4A0B-474	470 kΩ	1	Variable	
R169	QRD141J-223SY	1	1/4 W	Carbon	
R170	QRD141J-223SY	"	"	"	
R171	QRD141J-513SY		"	"	
R172	QRD141J-513SY	**	"	"	
R173	QRD141J-103SY	10 kΩ	"	"	
R174	QRD141J-103SY		"	"	
R175	QRD141J-332SY		"	"	
R176	ORD141J-332SY	1	"	"	
R177	QRD141J-102SY	1	"		
	JUND 1713-10231	11 1045		<u> </u>	

Resistors

Tem No. Part Number Rating Rating Rit R	Resisto	13			
R178	Item No.	Part Number	Ra	ting	Description
R179					
R191 QRD14IJ-104SY " " R192 QRD14IJ-104SY 100 kΩ " " R193 QRD14IJ-104SY 100 kΩ " " R194 QRD14IJ-23SY 100 kΩ " " R196 QRD14IJ-223SY " " " R197 QRD14IJ-223SY " " " R201 QRD14IJ-223SY " " " R202 QRD14IJ-32SSY " " " R202 QRD14IJ-33SY 30 Ω " " R203 QRD14IJ-33SY 30 Ω " " R204 QRD14IJ-36SY 56 kΩ " " R205 QRD14IJ-56SY 56 kΩ " " R206 QRD14IJ-16SY 150 Ω " " R208 QRD14IJ-16SY 150 Ω " " R210 QRD14IJ-56SY 220 Ω " " R212 QRD14IJ-56SY 560 Ω " " R211 QRD14IJ-33SY 150 Ω " " <td></td> <td></td> <td>- 1</td> <td></td> <td></td>			- 1		
R192 ORD141J-332SY "					
R194 QRD141J-304SY 100 kΩ " " " R195 QRD141J-304SY 10 kΩ " " " " R196 QRD141J-223SY 22 kΩ " " " " R196 QRD141J-223SY " " " " " R196 QRD141J-223SY " " " " " R201 QRD141J-223SY " " " " " R201 QRD141J-223SY " " " " " R201 QRD141J-32SY 15 kΩ " " " " R202 QRD141J-103SY 10 kΩ " " " " R204 QRD141J-331SY 330 Ω " " " " R206 QRD141J-362SY 5.6 kΩ " " " R206 QRD141J-362SY 2.2 kΩ " " " R207 QRD141J-151SY 150 Ω " " " R209 QRD141J-151SY 150 Ω " " " R209 QRD141J-151SY 150 Ω " " " R211 QRD141J-51SY 150 Ω " " " R212 QRD141J-31SY 330 Ω " " R212 QRD141J-31SY 330 Ω " " R214 QRD141J-331SY 330 Ω " " R217 QRD141J-331SY 330 Ω " " R218 QRD141J-331SY 330 Ω " " R219 QRD141J-331SY 330 Ω " " R219 QRD141J-331SY 330 Ω " " R275 QRD141J-333SY 330 Ω " " R303 QRD141J-333SY 33 kΩ " " R304 QRD141J-333SY 33 kΩ " " R304 QRD141J-333SY 33 kΩ " " R306 QRD141J-333SY 33 kΩ " " R306 QRD141J-333SY 33 kΩ " " " R311 QRD141J-102SY 1 kΩ " " " R311 QRD141J-102SY 1 kΩ " " " " " R311 QRD141J-102SY " " " " " " " " R311 QRD141J-102SY " " " " " " " " "	R191		-		1
R194 QRD141J-303SY 30 kΩ " " R195 QRD141J-223SY 10 kΩ " " " R197 QRD141J-223SY " " " " R198 QRD141J-223SY " " " " R201 QRD141J-103SY 10 kΩ " " " R202 QRD141J-103SY 10 kΩ " " " R203 QRD141J-103SY 10 kΩ " " " R204 QRD141J-103SY 10 kΩ " " " R204 QRD141J-104SY 100 kΩ " " " R204 QRD141J-161SY 100 kΩ " " " R206 QRD141J-151SY 150 Ω " " " R209 QRD141J-161SY 100 kΩ "	R192	QRD141J-332SY	**		i l
R195 ORD141J-1203SY 10 kΩ " R196 ORD141J-223SY " " R197 ORD141J-223SY " " R201 ORD141J-103SY 10 kΩ " " R202 ORD141J-303SY " " " R203 ORD141J-331SY 330 Ω " " " R204 ORD141J-331SY 330 Ω " " " R205 ORD141J-156SY 100 kΩ " " " R206 ORD141J-151SY 100 kΩ " " " R207 ORD141J-151SY 100 kΩ " " " R208 ORD141J-151SY 150 Ω " " " R210 ORD141J-151SY 150 Ω " " " R210 ORD141J-104SY 100 kΩ " " " R211 ORD141J-14SSY 15 kΩ " " " R212 ORD141J-14SSY 15 kΩ " " " R272 ORD141J-33SY 15 kΩ <td>R193</td> <td>QRD141J-104SY</td> <td>100 kΩ</td> <td>"</td> <td>"</td>	R193	QRD141J-104SY	100 kΩ	"	"
R195 QRD141J-103SY 10 kΩ "	D104	ODD14112026V	20 40	"	"
R196 QRD141J-223SY " " " R197 QRD141J-223SY "				,,	,,
R196					
R198 QRD141J-1223SY "	R196	QRD141J-223SY	22 kΩ		† · ·
R201	R197	QRD141J-223SY	"	"	1
R201 QRD14IJ-152SY 10 kΩ " " R202 QRD14IJ-103SY 10 kΩ " " R204 QRD14IJ-303SY 330 Ω " " R205 QRD14IJ-36SSY 5.6 kΩ " " R206 QRD14IJ-151SY 100 kΩ " " R207 QRD14IJ-151SY 150 Ω " " R208 QRD14IJ-151SY 150 Ω " " R209 QRD14IJ-151SY 150 Ω " " R210 QRD14IJ-261SY 560 Ω " " R211 QRD14IJ-151SY 150 Ω " " R212 QRD14IJ-151SY 150 Ω " " R271 QRD14IJ-163SY 100 kΩ " " R272 QRD14IJ-163SY 150 kΩ " " R273 QRD14IJ-182SY 1.8 kΩ " " R274 QRD14IJ-182SY 1.8 kΩ " " R301 QRD14IJ-103SY 10 kΩ " " R302 QRD14IJ-103SY 10 kΩ " " R304 QRD14IJ-333SY 30 kΩ " " R305 QRD14IJ-303SY 30 kΩ "	R198	QRD141J-223SY	**	"	••
R202 QRD14IJ-103SY " "			15kO	"	"
R203 QRD14IJ-J03SY 7 "				"	"
R203 QRD14IJ-33ISY 330 Ω " R205 QRD14IJ-62SY 5.6 k Ω " R206 QRD14IJ-16SY 100 k Ω " R207 QRD14IJ-15ISY 150 Ω " R209 QRD14IJ-15ISY 150 Ω " R210 QRD14IJ-15ISY 150 Ω " R211 QRD14IJ-26ISY 560 Ω " R211 QRD14IJ-16SY 150 Ω " R212 QRD14IJ-16SY 150 Ω " R271 QRD14IJ-16SY 150 Ω " R272 QRD14IJ-22SY 1.8 kΩ " R273 QRD14IJ-153SY 15 kΩ " R274 QRD14IJ-163SY 56 kΩ " R301 QRD14IJ-563SY 56 kΩ " R301 QRD14IJ-103SY 18 kΩ " R302 QRD14IJ-103SY 10 kΩ " R303 QRD14IJ-102SY 1 kΩ " R304 QRD14IJ-303SY 30 kΩ " " R307 QRD14IJ-303SY 30 kΩ " " <td></td> <td></td> <td></td> <td>٠,,</td> <td>١ ,,</td>				٠,,	١ ,,
R204 GRD14IJ-36SSY 5.6 kΩ " R206 QRD14IJ-222SY 100 kΩ " R207 QRD14IJ-104SY 100 kΩ " R208 QRD14IJ-151SY 150 Ω " R209 QRD14IJ-151SY " " R210 QRD14IJ-151SY 20 Ω " " R211 QRD14IJ-151SY 150 Ω " " R211 QRD14IJ-151SY 150 Ω " " R271 QRD14IJ-151SY 150 Ω " " R272 QRD14IJ-153SY 150 Ω " " R274 QRD14IJ-182SY 18 kΩ " " R275 QRD14IJ-163SY 15 kΩ " " R301 QRD14IJ-163SY 15 kΩ " " R302 QRD14IJ-103SY 10 kΩ " " R303 QRD14IJ-103SY 10 kΩ " " R304 QRD14IJ-102SY 1 kΩ " " R310 QRD14IJ-102SY 1 kΩ " " R311 QRD14IJ-102SY " "					ł " l
R206 GRD14HJ-302SY 3.8 ks. R207 QRD14HJ-104SY 100 kΩ " R208 QRD14HJ-151SY 150 Ω " R209 QRD14HJ-151SY 150 Ω " R210 QRD14HJ-151SY 150 Ω " R211 QRD14HJ-151SY 150 Ω " R212 QRD14HJ-161SY 100 kΩ " R271 QRD14HJ-162SY 1.0 kΩ " R272 QRD14HJ-222SY 2.2 kΩ " R273 QRD14HJ-333SY 15 kΩ " R274 QRD14HJ-82SY 15 kΩ " R301 QRD14HJ-63SY 16 kΩ " R302 QRD14HJ-163SY 16 kΩ " R303 QRD14HJ-103SY 10 kΩ " R304 QRD14HJ-103SY 10 kΩ " R305 QRD14HJ-102SY 1 kΩ " R306 QRD14HJ-102SY 1 kΩ " R311 QRD14HJ-102SY " " R311 QRD14HJ-102SY " " R312 QRD	R204				1
R206 QRD14IJ-104SY 100 kΩ " R208 QRD14IJ-151SY 150 Ω " " R209 QRD14IJ-151SY " " " R210 QRD14IJ-251SY 20 Ω " " R211 QRD14IJ-261SY 560 Ω " " R211 QRD14IJ-22SY 150 Ω " " R271 QRD14IJ-163SY 150 Ω " " R271 QRD14IJ-331SY 330 Ω " " R272 QRD14IJ-383SY 330 Ω " " R273 QRD14IJ-163SY 15 kΩ " " R301 QRD14IJ-163SY 15 kΩ " " R301 QRD14IJ-163SY 16 kΩ " " R303 QRD14IJ-103SY 10 kΩ " " R304 QRD14IJ-102SY 1 kΩ " " R305 QRD14IJ-303SY 30 kΩ " " R310 QRD14IJ-102SY " " " R311 QRD14IJ-102SY " "	R205	QRD141J-562SY	5.6 kΩ		"
R207 QRD14IJ-161SY 150 Ω " " " R208 QRD14IJ-151SY 150 Ω "	B206	ORD141J-222SY	2.2 kΩ	"	"
R208				",	"
R209 QRD141J-151SY " " " " " " " R210 QRD141J-221SY 220 Ω " " " " " R211 QRD141J-151SY 150 Ω " " " R271 QRD141J-10SY 100 kΩ " " " R272 QRD141J-122SY 2,2 kΩ " " R273 QRD141J-331SY 330 Ω " "				",	"
R210 QRD141J-151SY R211 QRD141J-151SY R211 QRD141J-151SY 150 Ω " " " R271 QRD141J-151SY 150 Ω " " " R272 QRD141J-151SY 150 Ω " " " R272 QRD141J-122SY 2.2 kΩ " " " R273 QRD141J-122SY 2.2 kΩ " " " R274 QRD141J-182SY 1.8 kΩ " " " R275 QRD141J-182SY 1.8 kΩ " " " R301 QRD141J-63SY 68 kΩ " " " R301 QRD141J-63SY 56 kΩ " " " R302 QRD141J-153SY 150 kΩ " " " R303 QRD141J-103SY 10 kΩ " " " R305 QRD141J-103SY 10 kΩ " " " R306 QRD141J-103SY 1 kΩ " " " R307 QRD141J-102SY 1 kΩ " " " " " " " " " " " " " " " " " "		l		l	l ,,
R210 GRD1413-261SY 560 Ω " " R211 QRD1413-151SY 150 Ω " " R272 QRD1413-104SY 100 kΩ " " R273 QRD1413-331SY 330 Ω " " R274 QRD1413-331SY 330 Ω " " R275 QRD1413-152SY 15 kΩ " " R301 QRD1413-683SY 68 kΩ " " R302 QRD1413-63SY 56 kΩ " " R303 QRD1413-153SY 150 kΩ " " R304 QRD1413-133SY 10 kΩ " " R305 QRD1413-102SY 1 kΩ " " R306 QRD1413-33SY 33 kΩ " " R307 QRD1413-102SY 1 kΩ " " R310 QRD1413-102SY 1 kΩ " " R311 QRD1413-102SY " " " " R312 QRD1413-102SY " " " " R314 QRD1413-102SY " " " " R315 QRD1413-102SY " " " " R316 QRD1413-102SY " " " " " R317 QRD1413-682SY 6.8 kΩ " " " R318 QRD1413-682SY 6.8 kΩ " " " R320 QRD1413-22SY 2.2 kΩ " " " " R352 QRD1413-82SY 1.5 kΩ " " " " " " " " " " " " " " " " " "	R209			l	
R211 QRD141J-151SY 150 Ω " " " " " " " " " " " " " " " " " "	R210	QRD141J-221SY	220 Ω	″	
R212	R211	OBD141J-561SY	560 Ω	"	**
R271				"	"
R272				",	"
R272 QRD141J-3231SY 330 Ω " " R274 QRD141J-182SY 1.8 kΩ " " R375 QRD141J-163SY 15 kΩ " " R301 QRD141J-63SY 56 kΩ " " R302 QRD141J-154SY 150 kΩ " " R303 QRD141J-103SY 150 kΩ " " R304 QRD141J-103SY 10 kΩ " " R306 QRD141J-333SY 33 kΩ " " R307 QRD141J-333SY 33 kΩ " " R308 QRD141J-102SY 1 kΩ " " R309 QRD141J-102SY 1 kΩ " " R310 QRD141J-102SY " " " " R311 QRD141J-102SY " " " " R312 QRD141J-102SY " " " " R313 QRD141J-102SY " " " " " R314 QRD141J-102SY " " " " " R315 QRD141J-102SY " " " " " " " " " " " " " " " " " " "				"	,,
R274 QRD141J-182SY 1,8 kΩ " "			1 '	1	i l
R275 QRD141J-153SY 15 kΩ " R301 QRD141J-63SY 15 kΩ " R302 QRD141J-153SY 150 kΩ " R303 QRD141J-154SY 150 kΩ " R304 QRD141J-103SY 10 kΩ " R306 QRD141J-103SY 33 kΩ " R307 QRD141J-102SY 1 kΩ " R310 QRD141J-102SY 1 kΩ " R311 QRD141J-102SY " R312 QRD141J-102SY " R313 QRD141J-102SY " R314 QRD141J-102SY " R315 QRD141J-102SY " R315 QRD141J-102SY " R316 QRD141J-102SY " R317 QRD141J-102SY " R318 QRD141J-102SY " R319 QRD141J-102SY " R319 QRD141J-153SY 680 Ω " R320 QRD141J-22SY 2.2 kΩ " R351 QRD141J-82SY 8.2 kΩ " R352 QRD141J-82SY 8.2 kΩ " R353 QRD141J-82SY 1.5 kΩ " R354 QRD141J-82SY 8.2 kΩ " R355 QRD141J-82SY 1.5 kΩ " R356 QRD141J-82SY 1.8 kΩ " R357 QRD141J-82SY 1.8 kΩ " R358 QRD141J-82SY 1.8 kΩ " R359 QRD141J-82SY 1.8 kΩ " R359 QRD141J-22SY 22 kΩ " R404 QRD141J-22SY 22 kΩ " R405 QRD141J-22SY 22 kΩ " R406 QRD141J-22SY 22 kΩ " R407 QRD141J-22SY 22 kΩ " R409 QRD141J-22SY 22 kΩ " R409 QRD141J-22SY 22 kΩ " R409 QRD141J-301SY " R410 QRD141J-301SY " R411 QRD141J-473SY " R412 QRD141J-473SY 47 kΩ " R413 QRD141J-153SY 15 kΩ " R414 QRD141J-22SY 220 kΩ " R415 QRD141J-153SY 15 kΩ " R416 QRD141J-153SY 15 kΩ " R417 QRD141J-153SY 15 kΩ " R416 QRD141J-153SY 15 kΩ " R417 QRD141J-153SY 15 kΩ " R418 QRD141J-153SY 15 kΩ " R419 QRD141J-153SY 15 kΩ " R417 QRD141J-153SY 15 kΩ " R418 QRD141J-153SY 15 kΩ " R419 QRD141J-153SY 15 kΩ " R419 QRD141J-153SY 15 kΩ " R419 QRD141J-153SY 15 kΩ	R273	QRD141J-331SY	330 Ω		
R275	R274	QRD141J-182SY	1.8 kΩ	"	"
R301 QRD141J-683SY R302 GR L41J-563SY R56 kΩ """"""""""""""""""""""""""""""""""""				- "	"
R301 QRD14IJ-154SY 150 kΩ " R303 QRD14IJ-154SY 150 kΩ " " R304 QRD14IJ-103SY 10 kΩ " " R305 QRD14IJ-303SY 33 kΩ " " R306 QRD14IJ-303SY 30 kΩ " " R310 QRD14IJ-102SY 1 kΩ " " R311 QRD14IJ-102SY " " " R312 QRD14IJ-102SY " " " R313 QRD14IJ-102SY " " " R314 QRD14IJ-102SY " " " R315 QRD14IJ-102SY " " " R316 QRD14IJ-68SY 6.8 kΩ " " R317 QRD14IJ-68SY 6.8 kΩ " " R319 QRD14IJ-751SY 750 Ω " " R319 QRD14IJ-82SY 8.2 kΩ " " R351 QRD14IJ-82SY 8.2 kΩ " " R352 QRD14IJ-82SY 1.5 kΩ "	1			,,	,,
R302 QRD141J-154SY 150 kΩ " R304 QRD141J-103SY 10 kΩ " R306 QRD141J-333SY 13 kΩ " R307 QRD141J-303SY 30 kΩ " R310 QRD141J-102SY 1 kΩ " R311 QRD141J-102SY 1 kΩ " R312 QRD141J-102SY 1 kΩ " R313 QRD141J-102SY 1 kΩ " R314 QRD141J-102SY 1 kΩ " R315 QRD141J-102SY 1 kΩ " R316 QRD141J-102SY 1 kΩ " R317 QRD141J-102SY 1 kΩ " R318 QRD141J-102SY 1 kΩ " R319 QRD141J-682SY k2 kΩ " R319 QRD141J-881SY k50 kΩ " R351 QRD141J-393SY k2 kΩ " R352 QRD141J-82SY k2 kΩ " R353 QRD141J-82SY k2 kΩ " R354 QRD141J-82SY k2 kΩ " R355 QRD141J-82SY k2 kΩ " R356 QRD141J-82SY k2 kΩ " R357 QRD141J-22SY k2 kΩ " R403 QRD14			1	,,	
R304 QRD141J-103SY 10 kΩ " " R305 QRD141J-333SY 33 kΩ " " R306 QRD141J-303SY 1 kΩ " " R307 QRD141J-303SY 1 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY 1 kΩ " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-681SY 680 Ω " " " R317 QRD141J-681SY 680 Ω " " " R319 QRD141J-682SY 6.8 kΩ " " " R319 QRD141J-222SY 2.2 kΩ " " " R351 QRD141J-393SY 39 kΩ " " " R352 QRD141J-821SY 820 Ω " " " R353 QRD141J-821SY 820 Ω " " " R354 QRD141J-821SY 820 Ω " " " R355	1		1	1	
R305 QRD141J-103SY 1 kΩ " " R306 QRD141J-102SY 1 kΩ " " R307 QRD141J-102SY 1 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-681SY 680 Ω " " " R317 QRD141J-682SY 68 kΩ " " " R318 QRD141J-682SY 68 kΩ " " " R319 QRD141J-751SY 750 Ω " " " R351 QRD141J-82SY 8.2 kΩ " " " R352 QRD141J-82SY 8.2 kΩ " " " R353 QRD141J-821SY 820 Ω " " " R354 QRD141J-821SY 820 Ω " " " R355 QRD141J-821SY 820 Ω " " " R358 QR	R303	QRD141J-154SY	150 kΩ	"	
R305 QRD141J-333SY 33 kΩ " " R306 QRD141J-102SY 1 kΩ " " R310 QRD141J-303SY 30 kΩ " " R311 QRD141J-102SY 1 kΩ " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " R318 QRD141J-681SY 680 Ω " " R319 QRD141J-681SY 680 Ω " " R320 QRD141J-52SY 750 Ω " " R351 QRD141J-82SY 8.2 kΩ " " R352 QRD141J-82SY 8.2 kΩ " " R353 QRD141J-82SY 8.2 kΩ " " R355 QRD141J-82SY 8.2 kΩ " " R356 QRD141J-22SY 1.8 kΩ	B304	ORD141J-103SY	10 kΩ	***	п
R306 QRD141J-102SY 1 kΩ " " R307 QRD141J-102SY 1 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " " R318 QRD141J-682SY 6.8 kΩ " " " R319 QRD141J-682SY 6.8 kΩ " " " R320 QRD141J-822SY 8.2 kΩ " " " R351 QRD141J-822SY 8.2 kΩ " " " R352 QRD141J-821SY 820 Ω " " " R353 QRD141J-382SY 1.8 kΩ " "<				"	"
R307 QRD141J-303SY 30 kΩ " " R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R316 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " R318 QRD141J-681SY 680 Ω " " R319 QRD141J-751SY 750 Ω " " R320 QRD141J-751SY 750 Ω " " R351 QRD141J-82SY 750 Ω " " R352 QRD141J-82SY 1.5 kΩ " " R353 QRD141J-821SY 820 Ω " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-82SY 1.8 kΩ " " R358 QRD141J-82SY 1.8 kΩ <t< td=""><td></td><td></td><td>1</td><td>"</td><td>,,</td></t<>			1	"	,,
R310 QRD141J-102SY 1 kΩ " " R311 QRD141J-102SY " " " R312 QRD141J-102SY " " " R313 QRD141J-102SY " " " R314 QRD141J-102SY " " " R315 QRD141J-102SY " " " R316 QRD141J-102SY " " " R317 QRD141J-681SY 680 Ω " " R318 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-751SY 750 Ω " " R320 QRD141J-393SY 39 kΩ " " R351 QRD141J-393SY 8.2 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-822SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-821SY 820 Ω " " R356 QRD141J-82SY 1.8 kΩ " " R357 QRD141J-82SY 1.8 kΩ " " R358 QRD141J-82SY 1.8 kΩ " " R359 QRD141J-682SY 6.8 kΩ " " R369 QRD141J-682SY 6.8 kΩ " " R360 QRD141J-223SY 22 kΩ " " R403 QRD141J-22SY 22 kΩ " " R404 QRD141J-22SY 22 kΩ " " R405 QRD141J-22SY " " " R406 QRD141J-22SY " " " R407 QRD141J-22SY " " " R408 QRD141J-22SY " " " R409 QRD141J-22SY " " " R409 QRD141J-301SY " " " R410 QRD141J-301SY " " " R411 QRD141J-473SY " " " " R412 QRD141J-473SY " " " " R413 QRD141J-473SY " " " " R414 QRD141J-473SY " " " " R415 QRD141J-153SY " " " " R416 QRD141J-153SY " " " " R416 QRD141J-153SY " " " " R416 QRD141J-153SY " " " " " R417 QRD141J-153SY " " " " " " " " " " " " " " " " " " "				.,	,,
R311 QRD141J-102SY "	R307		1	1	1
R311 QRD141J-102SY " " " " " " " " " " " " "	R310	QRD141J-102SY	1 kΩ		<u> </u>
R312 QRD141J-102SY " " " " " " " " " " " " " " " " " " "	B311	ORD141J-102SY	**	"	,,
R313 QRD141J-102SY "	1		"	"	••
R314 QRD141J-102SY "			,,	.,,	
R314 QRD141J-102SY " " " R316 QRD141J-102SY " " " " R317 QRD141J-681SY 680 Ω " " " R318 QRD141J-682SY 6.8 kΩ " " " R319 QRD141J-751SY 750 Ω " " " R320 QRD141J-393SY 39 kΩ " " " R351 QRD141J-393SY 39 kΩ " " " R352 QRD141J-822SY 8.2 kΩ " " " R353 QRD141J-822SY 8.2 kΩ " " " R354 QRD141J-821SY 820 Ω " " " R355 QRD141J-822SY 1.8 kΩ " " " R356 QRD141J-821SY 820 Ω " " " R357 QRD141J-821SY 820 Ω " " " R358 QRD141J-821SY 820 Ω " " " R403 QRD141J-563SY 56 kΩ " <td></td> <td></td> <td>l</td> <td>1</td> <td></td>			l	1	
R316 QRD141J-102SY "			1	1	
R316	R315	QRD141J-102SY	l "		
R317 QRD141J-681SY 680 Ω " " R318 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-751SY 750 Ω " " R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-82SSY 3.9 kΩ " " R352 QRD141J-82SYY 8.2 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-82SY 6.8 kΩ " " R356 QRD141J-82SY 6.8 kΩ " " R357 QRD141J-82SY 820 Ω " " R358 QRD141J-223SY 820 Ω " " R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R406 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-301SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY "	R316	QRD141J-102SY	11	"	"
R318 QRD141J-682SY 6.8 kΩ " " R319 QRD141J-751SY 750 Ω " " R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-82SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-82SY 1.8 kΩ " " R357 QRD141J-82SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-224SY 2.2 kΩ " " R407 QRD141J-301SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY	1		680 Ω	"	"
R319 QRD141J-751SY 750 Ω " " R320 QRD141J-222SY 2.2 kΩ " " R351 QRD141J-393SY 39 kΩ " " R352 QRD141J-822SY 8.2 kΩ " " R353 QRD141J-821SY 820 Ω " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-823SY 39 kΩ " " R356 QRD141J-823SY 39 kΩ " " R357 QRD141J-823SY 6.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R359 QRD141J-823SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-222SY " " " R405 QRD141J-222SY 2.2 kΩ " " " R406 QRD141J-301SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY <td>_</td> <td></td> <td></td> <td>"</td> <td>**</td>	_			"	**
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R353 QRD141J-152SY 1.5 kΩ " " R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-182SY 6.8 kΩ " " R357 QRD141J-182SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R403 QRD141J-223SY 22 kΩ " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY 2.2 kΩ " " R407 QRD141J-222SY 2.2 kΩ " " R408 QRD141J-224SY 220 kΩ " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY 47 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY		QRD141J-822SY	8,2 kΩ	"	"
R354 QRD141J-821SY 820 Ω " " R355 QRD141J-393SY 39 k Ω " " R356 QRD141J-682SY 6.8 k Ω " " R357 QRD141J-182SY 1.8 k Ω " " R358 QRD141J-223SY 22 k Ω " " R403 QRD141J-563SY 56 k Ω " " R404 QRD141J-563SY 56 k Ω " " R405 QRD141J-222SY 2.2 k Ω " " R406 QRD141J-222SY 2.2 k Ω " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R413 QRD141J-224SY 220 k Ω " " R414 QRD141J-153SY " " " R415 QRD141J-153SY			1	"	"
R355 QRD141J-393SY 39 kΩ " " R356 QRD141J-682SY 6.8 kΩ " " R357 QRD141J-182SY 1.8 kΩ " " R358 QRD141J-821SY 820 Ω " " R403 QRD141J-23SY 22 kΩ " " R404 QRD141J-563SY 56 kΩ " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY 2.2 kΩ " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-224SY " " " R409 QRD141J-301SY " " " R410 QRD141J-473SY " " " R411 QRD141J-473SY " " " R412 QRD141J-224SY 220 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY " " " R415 QRD141J-153SY 15 kΩ			1	"	l n
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R358 QRD141J-821SY 820 Ω " " R359 QRD141J-823SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY 56 kΩ " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-301SY 300 Ω " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY 15 kΩ " " R415 QRD141J-153SY " " " R416 QRD141J-682SY 6.8 kΩ " "	R356	QRD141J-682SY			
R358 QRD141J-821SY 820 Ω " " R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-301SY " " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY 15 kΩ " " R417 QRD141J-682SY 6.8 kΩ " "	R357	QRD141J-182SY	1.8 kΩ	"	"
R359 QRD141J-223SY 22 kΩ " " R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY " " " R405 QRD141J-222SY " " " R406 QRD141J-222SY " " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY 47 kΩ " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY " " " R413 QRD141J-224SY " " " R414 QRD141J-153SY 15 kΩ " " R415 QRD141J-153SY " " " R416 QRD141J-682SY 6.8 kΩ " "	1		1	"	"
R403 QRD141J-563SY 56 kΩ " " R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY " " " R408 QRD141J-224SY " " " R410 QRD141J-301SY 300 Ω " " R411 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY 47 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-153SY 15 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-682SY 6.8 kΩ " "			1 -	"	"
R404 QRD141J-563SY " " " R405 QRD141J-222SY 2.2 kΩ " " R406 QRD141J-222SY " " " R407 QRD141J-224SY 220 kΩ " " R408 QRD141J-224SY " " " R409 QRD141J-301SY 300 Ω " " R410 QRD141J-473SY 47 kΩ " " R412 QRD141J-473SY 47 kΩ " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY 220 kΩ " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "				"	"
R404 QRD141J-563SY R405 QRD141J-22SSY R406 QRD141J-22SSY R407 QRD141J-224SY R408 QRD141J-224SY R409 QRD141J-301SY R410 QRD141J-301SY R411 QRD141J-473SY QRD141J-473SY R412 QRD141J-473SY R413 QRD141J-224SY Z20 kΩ R414 QRD141J-224SY Z20 kΩ R415 QRD141J-153SY R416 QRD141J-153SY R416 QRD141J-153SY R416 QRD141J-1682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R416 QRD141J-682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R417 QRD141J-682SY G.8 kΩ R417 R416 QRD141J-682SY G.8 kΩ R417 R416 QRD141J-682SY G.8 kΩ R417 R416 R				-	
R406 QRD141J-22SY " " " " R407 QRD141J-224SY " " " " R408 QRD141J-224SY " " " " R409 QRD141J-301SY " " " " R410 QRD141J-301SY " " " " " R411 QRD141J-473SY " " " " " R412 QRD141J-473SY " " " " " " R413 QRD141J-224SY 220 kΩ " " " " R414 QRD141J-224SY 15 kΩ " " " " " R415 QRD141J-153SY 15 kΩ " " " " " " R416 QRD141J-153SY 15 kΩ " " " " " " " " R417 QRD141J-682SY 6.8 kΩ " " " " " "	R404		1	1	l .
R406 QRD141J-222SY R407 QRD141J-224SY R408 QRD141J-224SY R409 QRD141J-301SY R410 QRD141J-301SY R411 QRD141J-301SY R412 QRD141J-473SY R413 QRD141J-473SY R414 QRD141J-224SY R415 QRD141J-153SY R416 QRD141J-153SY R417 QRD141J-682SY 6.8 kΩ "	R405	QRD141J-222SY	2.2 kΩ	1	
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R409 QRD141J-301SY 300 Ω " " R410 QRD141J-301SY " " " R411 QRD141J-473SY 47 k Ω " " R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 k Ω " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 k Ω " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 k Ω " "				"	"
R409 QRD141J-301SY 300 Ω " " " " " " " " " " " " " " " " " "				 	
R410 QRD141J-3301SY					
R411 QRD141J-473SY 47 KΩ R412 QRD141J-473SY " " " R413 QRD141J-224SY 220 kΩ " " R414 QRD141J-224SY " " " R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	R410	QRD141J-301SY	1	1	1
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R414 QRD141J-224SY R415 QRD141J-153SY 15 kΩ " " R416 QRD141J-153SY " " " R417 QRD141J-682SY 6.8 kΩ " "	_				+
R416 QRD141J-153SY " " " " R417 QRD141J-682SY 6.8 kΩ " "	R414	QRD141J-224SY	"	1	
R416 QRD141J-153SY " " " " R417 QRD141J-682SY 6.8 kΩ " " "	R415	QRD141J-153SY	15 kΩ	"	"
R417 QRD141J-682SY 6.8 kΩ " "		QRD141J-153SY	·	"	"
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וודוט עווטודוט־טטבטין	1		1		"
	N418	QUD1413-00251		1	

Resistors

Item No.	Part Number	Rating		Description	
R419	QRD141J-102SY	1kΩ	1/4 W	Carbon	
R420	QRD141J-102SY	"	"		
R421	QRD149J-560S	56 Ω	"	♦	
R422	QRD149J-560S	"	"	♦	
R423	QRD141J-564SY	560 kΩ	"	<i>"</i>	
R424	QRD141J-564SY	"	"		
R461	QRD141J-334SY	330 kΩ	.11	"	
R462	QRD141J-334SY		"	"	
R463	QRD141J-104SY	100 kΩ	"	"	
R464	QRD141J-104SY		"		

 ⚠ : Safety Parts

Others

Item No.	Part Number	Rating	Description
P104	QMV5005-002		2 Pins Plug
S401	QSP0259-107		Select Switch
PHAUX	E03591-41F		Pin Jack
	EWR25J-06DD		Flat Cable
	E03572-019P		Antenna Terminal
	E300098-001		Shield Case
	E43727-001	*	Tab
	E67125-001		LED Holder (Signal)
	E67126-001		LED Holder (Tuned)
	E67127-001		LED Holder (Stereo)
	QAA2232-002		Tuning Capacitor
	QMV5005-002		2 Pins Plug
	QMV5005-004		4 Pins Plua
	QMV5005-006	The search of the search	6 Pins Plug

8-(2) TXX-255 Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y

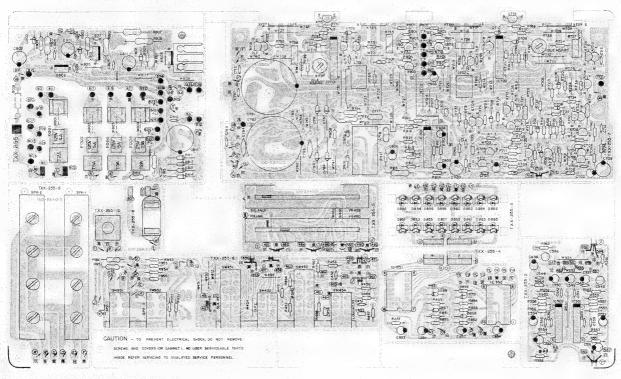


Fig. 16

Each Individual P.C. Board Location

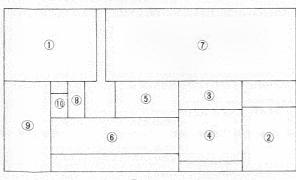


Fig. 17

Note:

The specific symbols (\pm , \pm , \ominus , etc.) on a surface of P.C. Board are actually unrelated to the repair service and are significant denotement in order to process the proper assembly at the factory.

①TXX-255 -1 : Power Supply P.C. Board Ass'y

②TXX-255-2 : S.E.A. (Sound Effect Amplifier) P.C. loard

Ass'y

③ TXX-255-3 : L.E.D. P.C. Board Ass'y

4 TXX-255-4 : Power Indicater Driver P.C. Board Ass'y

(5) TXX-255-5 : Volume Control P.C. Board Ass'y

⑥ TXX-255-6 : Mode and Speaker Select Switch P.C. lo ard

Ass'y

TXX-255 -7 : Main Amp. P.C. Board Ass'y

® TXX-255 ☐-8: AC Socket P.C. Board Ass'y

9 TXX-255-9 : Speaker Terminals P.C. Board Ass'y

① TXX-255-10 : Headphones Jack P.C. Board Ass'y

Note:

In ____ should be indicated an area code according to thetable shown below when placing an order.

Designated Areas	P.C. Board Ass'y	1
U.K.	TXX-255 EBS	
Europe	TXX-255 E	

Transistors

Item No.	Part Number		Rating	Descrip	tion
		Pc	fT		Maker
X701	2SC1775AV(F1)	0.2 W	200 MHz	Silicon	Hitachi
X702	2SC1775AV(F1)	"	**	"	"
X703	2SC1775AV(F1)	"	"	"	"
X704	2SC1775AV(F1)	**	**	"	"
X705	2SC2546(E)	0.4 W	90 MHz	"	"
X706	2SC2546(E)	"	"	"	**
X707	2SA949(O,Y)	3 W	120 MHz	"	Toshiba
X708	2SA949(O,Y)	**	••	"	"
X709	2SA949(O,Y)	**	"	"	"
X710	2SA949(O,Y)	"	"	"	"
X711	2SA1029(C)	0.2 W	200 MHz	"	Hitachi
X712	2SA1029(C)	"	"	"	**
X713	2SC2229(O,Y)	w 8.0	120 MHz	"	Toshiba
X714	2SC2229(O,Y)	"	**	"	"
X715	2SC2546(E)	0.4 W	90 MHz	"	Hitachi
X716	2SC2546(E)	**	"	"	"
X717	2SC1775AV(F)	0.2 W	200 MHz	"	"
X718	2SC1775AV(F)	"	"	"	"
X719	2SA872AV(E)	0.3 W	120 MHz	"	"
X720	2SA872AV(E)	**	**	"	"
X721	2SC2235(O,Y)	0.9 W	**	"	Toshiba
X722	2SC2235(O.Y)	"	"	"	"
X723	2SA965(O,Y)	"	"	"	"
X724	2SA965(O,Y)	"	"	"	"
X725	2SD845LB(R,O)	120 W	20 MHz	"	"
X726	2SD845LB(R.O)	"	**	- 11	"
X727	2SB755LB(R,O)	"	**	"	"
X728	2SB755LB(R,O)	"	"	"	"
X801	2SD313V(D,E)	30 W	8 MHz	"	Sanyo
X802	2SB507V(D,E)	"	**	"	**
X803	2SD313V(D,E)	**	"	"	"
X901	2SC1775AV(F)	0.2 W	200 MHz	**	Hitachi
X902	2SC1775AV(F)	"	"	"	"
X903	2SA872AV(E)	0.3 W	120 MHz	"	"
		4			

Integrated Circuits

Item No.	Part Number	nber Rating	Descri	Description		
		Pc		Maker		
IC501	HA1457	0.5 W	I.C.	Hitachi		
1C502	HA1457	"	"	"		
IC701	VC5022		**	Toyo Dengu		
IC702	VC5022		"	"		
IC851	BA684		**	"		
IC852	BA684		"	"		
IC901	TA7317P	0.5 W	"	Toshiba		

Diodes

Item No.	Part Number	Rating	Descrip	tion	
				Maker	
D701	1\$2076-31		Silicon	Hitachi	
D702	1S2076-31		"	"	l
D703	1S2076-31		"	"	
D704	1S2076-31		"	"	
D705	1S2076-31		"	**	
D706	1S2076-31		"	"	
D707	1S2076-31		"	"	
D708	1S2076-31		"	**	
D709	1S2076-31		**	"	l
D710	1S2076-31		"	"	l
D781	30D2FA-S		"	Nihon Inter	1
D782	30D2FA-S			″ ≜	ı
D783	30D2FA-S		"	/ A	l
D784	30D2FA-S		"	" A	۱
D801	RD22EB3		Silicon	NEC	l
			(Zener)		ı
D802	RD22EB3			<i>"</i>	1
D803	RD13EB3		"	"	1

Diodes

Item No.	Part Number	Rating	Descrip	tion
				Maker
D811	ERB12-02RKL1		Silicon	Fuji 🛆
D812	ERB12-02RKL1		"	·· 🛕
D813	ERB12-02RKL1		. "	″ △
D814	ERB12-02RKL1		"	· A
D851	SLB-26GG		LED	Toyo Dengu
D852	SLB-26GG		"	<i>,,</i> ,
D853	SLB-26GG		"	"
D854	SLB-26GG		"	"
D855	SLB-26GG		"	"
D856	SLB-26GG		"	"
D857	SLB-26GG		"	"
D858	SLB-26GG		"	"
D859	SLB-26GG		"	"
D860	SLB-26GG		"	"
D861	SLB-26GG		"	"
D862	SLB-26GG		"	••
D863	SLB-26GG		"	"
D864	SLB-26GG	·	"	"
D865	SLB-26GG		"	**
D866	SLB-26GG		"	"
D867	1S2076-31		Silicon	Hitachi
D868	1S2076-31		"	"
D869	1S2076-31		"	"
D870	1S2076-31		"	"
D901	1S2076-31		"	"
D902	1S2076-31		"	**

Coils

Item No.	Part Number	Rating	Description
L701	E04059-1R0	1.0 µH	Choke Coil
L702	E04059-1R0	**	"

Capacitors

Capaci	Capacitors							
Item No.	Part Number	Rating		Description				
C451	QCS31HJ-151Z	160 pF	50 V	Ceramic				
C452	QCS31HJ-151Z	"	**	"				
C453	QFM31HK-183Z	0.018 µF	"	Mylar				
C454	QFM31HK-183Z	"	**	"				
C531	QEB51EM-475	4.7 μF	25 V	Low Leak Current				
				Electrolytic				
C532	QEB51EM-475	"	**	"				
C533	QET51AR-476	47 μF	10 V	Electrolytic				
C534	QET51AR-476	"	"	"				
C535	QCS31HJ-101Z	100 pF	50 V	Ceramic				
C536	QCS31HJ-101Z	11	"	"				
C537	QET51AR-476	47 μF	10 V	Electrolytic				
C538	QET51AR-476	"	"	"				
C539	QCS31HJ-820Z	82 pF	50 V	Ceramic				
C540	QCS31HJ-820Z	"	"	"				
C541	QCS31HJ-560Z	56 pF	"					
C542	QCS31HJ-560Z	"	"	"				
C543	QCS31HJ-271Z	270 pF	"	"				
C544	QCS31HJ-271Z	") "	"				
C545	QEZ0046-475	4.7 μF	''	Electroytic				
C546	QEZ0046-475	**	"	"				
C549	QET51ER-476	47 μF	25 V	"				
C550	QET51ER-476	**	"	"				
C701	QET61HR-475Z	4.7 μF	50 V	"				
C702	QET61HR-475Z	"	"	"				
C705	QFM31HK-392Z	3900 pF	"	Mylar				
C706	QFM31HK-392Z	"	"	"				
C707	QET61CR-107Z	100 μF	16 V	Electroyt sc				
C708	QET61CR-107Z	"	"	"				
C709	QFM31HK-272Z	2700 pF	50 V	Mylar				
C710	QFM31HK-272Z	"	"					
A . C-f-4								

∴ Safety Parts

Capacitors

Tem No. Part Number Rating Description	Capacitors						
C712 QCS31HJ-120Z C713 QCS31HJ-470Z C714 QCS31HJ-470Z C715 QCS31HJ-470Z C716 QCS31HJ-470Z C717 QFM31HK-473Z C718 QFM31HK-473Z C718 QEZ060-878E C781 QEZ060-878E C782 QEZ060-878E C783 QCE22HP-103 C784 QCE22HP-103 C785 QCF21HP-473A C787 QCF21HP-473A C788 QCF21HP-473A C781 QET51ER-107 C801 QET51ER-107 C811 QET51CR-228H C815 QCF21HP-223 C851 QEF51ER-106 C852 QET51ER-106 C852 QET51ER-106 C853 QET51HR-225 C901 QCF31HP-223Z C903 QET51HR-225 C901 QCF31HP-223Z C903 QET51HR-225 C904 QET61AR-107Z C905 QET61AR-107Z C904 QET61AR-107Z C905 QET61CR-226Z C904 QET61AR-107Z C905 QET61CR-226Z C904 QET61AR-107Z C906 QET61CR-226Z C907 QCF31HP-223Z C9003 QET61CR-226Z C904 QET61CR-226Z C906 QET61CR-226Z C907 QET61CR-226Z C907 QET61CR-226Z C908 QET61CR-226Z C909 Q	Item No.	Part Number	Ra	ting	Description		
C712	C711	QCS31HJ-120Z	12 pF	50 V	Ceramic		
C714 QCS31HJ-470Z " " " " " " " " " " " " " " " " " " "	C712	QCS31HJ-120Z	"	"	"		
C714 QCS31HJ-470Z " " " " " " " " " " " " " " " " " " "	C713	QCS31HJ-470Z	47 pF	"	"		
C715 QCS31HJ-470Z C717 QFM31HK-473Z C718 QFM31HK-473Z C781 QEZ0060-878E C782 QEZ0060-878E C783 QCE22HP-103 C784 QCE22HP-103 C785 QCF21HP-103 C787 QCF21HP-473A C788 QCF21HP-473A C780 QET51ER-107 C801 QET51ER-107 C801 QET51CR-227 C814 QET51CR-228H C815 QCF21HP-223 C851 QET51ER-106 C852 QET51ER-106 C853 QET51HR-225 C854 QET51HR-225 C901 QCF31HP-223Z C903 QET51HR-223Z C903 QET51HR-223Z C903 QET61AR-107Z C905 QET61CR-226Z C904 QET61AR-107Z C905 QET61CR-226Z C904 QET61AR-107Z C905 QET61CR-226Z C906 QET61CR-226Z C907 QET61CR-226Z C907 QET61AR-107Z C908 QET61AR-107Z C909 QET61CR-226Z C909	C714 .	QCS31HJ-470Z	"	"	"		
C716	C715	QCS31HJ-470Z	"	"	"		
C718	C716	QCS31HJ-470Z	"	"	"		
C781 QEZ0060-878E	C717	QFM31HK-473Z	0.047 µF	"	Mylar		
C782 QEZ0060-878E " " " " C783 QCE22HP-103	C718	QFM31HK-473Z	"	"	"		
C783 QCE22HP-103	C781	QEZ0060-878E	8700 μF	56 V	Electrolytic		
C784 QCE22HP-103 " " " 50 V C C C C C C C C C C C C C C C C C C	C782	QEZ0060-878E	"	"	"		
C784	C783	QCE22HP-103	0.01 μF	500 V	Ceramic		
C785	C784	QCE22HP-103	"	"	"		
C788 QCF21HP-473A	C785	QCF21HP-103	"	50 V	**		
C801 QET51ER-107	C787	QCF21HP-473A	0.047 µF	"	"		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	C788	QCF21HP-473A	"	"	"		
C802	C801	QET51ER-107	100 μF	25 V	Electrolytic		
C814 QET51CR-227 220 μF 2200 μF C815 QCF21HP-223 0.022 μF 50 V Ceramic C851 QET51ER-106 0.022 μF 50 V Electrolytic C852 QET51ER-106 " " " " " C853 QET51HR-225 2.2 μF 50 V " Ceramic C854 QET51HR-225 " " " Ceramic C901 QCF31HP-223Z 0.022 μF " Ceramic C902 QCF31HP-223Z " " Electrolytic C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C802	QET51ER-107	"	"	"		
C814 QETS1CR-228H 2200 μF C815 QCF21HP-223	C811	QET51CR-227	220 µF	16 V	"		
C851 QET51ER-106 10 μF 25 V Electrolytic C852 QET51ER-106 " " " " " C853 QET51HR-225 2.2 μF 50 V " " C854 QET51HR-225 " " C901 QCF31HP-223Z 0.022 μF " Ceramic C902 QCF31HP-223Z " " " Electrolytic C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C814	QET51CR-228H	2200 µF	"	"		
C852 QET51ER-106 " " " " " C853 QET51HR-225 2.2 μF 50 V " " C854 QET51HR-225 " " C901 QCF31HP-223Z 0.022 μF " Ceramic C902 QCF31HP-223Z " " " C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C815	QCF21HP-223	0.022 µF	50 V	Ceramic		
C852 QET51HR-106 C853 QET51HR-225 $2.2 \mu F$ 50 V " C854 QET51HR-225 " " " " C901 QCF31HP-223Z 0.022 μF " Ceramic C902 QCF31HP-223Z " " " " C903 QET51HR-226 $22 \mu F$ " Electrolytic C904 QET61AR-107Z $100 \mu F$ 10 V " C905 QET61CR-226Z $22 \mu F$ 16 V "	C851	QET51ER-106	10 μF	25 V	Electrolytic		
C854 QET51HR-225 " " " " Ceramic C901 QCF31HP-223Z " " " " Ceramic C902 QCF31HP-223Z " " " " Electrolytic C904 QET61AR-107Z 100 μF 10 V " " C905 QET61CR-226Z 22 μF 16 V "	C852	QET51ER-106	"	**	"		
C901 QCF31HP-223Z 0.022 μF " Ceramic C902 QCF31HP-223Z " " " C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C853	QET51HR-225	2.2 µF	50 V	"		
C902 QCF31HP-223Z " " " C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C854	QET51HR-225	"		"		
C902 QCF31HF-2232 C903 QET51HR-226 22 μF " Electrolytic C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C901	QCF31HP-223Z	0.022 μF	**	Ceramic		
C904 QET61AR-107Z 100 μF 10 V " C905 QET61CR-226Z 22 μF 16 V "	C902	QCF31HP-223Z	"	**	72		
C905 QET61CR-226Z 22 μF 16 V "	C903	QET51HR-226	22 μF	"	Electrolytic		
C905 GETBTCR-2262 22 µF 16 V	C904	QET61AR-107Z	100 μF	10 V	"		
C906 QET61HR-105Z 1 μF 50 V "	C905	QET61CR-226Z	22 μF	16 V			
	C906	QET61HR-105Z	1 μF	50 V	"		

Resistors

nesistors					
Item No.	Part Number	Rat	ing	Description	
R001	QRC121K-275EM	2.7 MΩ	1/2 W	Composition A	
R451	QRD141J-332SY	$3.3 k\Omega$	1/4 W	Carbon	
R452	QRD141J-332SY	"	"	**	
R453	QRD141J-332SY	"	,,	**	
R454	QRD141J-332SY	"	"	"	
R455	QRD141J-564SY	560 kΩ	"	,,	
R456	QRD141J-564SY	"	"	"	
R457	QRD141J-223SY	22 kΩ	"	"	
R458	QRD141J-223SY	"	"	**	
R459	QVZ5010-009	250 kΩ	[Variable (BALANCE)	
R460	QVZ5010-008	"		" (VOLUME)	
R461	QRD141J-333SY	33 kΩ	1/4 W	Carbon	
R551	QRD141J-184SY	180 kΩ	"	"	
R552	QRD141J-184SY	"	**	**	
R553	QRD141J-102SY	1 kΩ	"	"	
R554	QRD141J-102SY	**	17	er	
R555	QRD141J-222SY	2.2 kΩ	"	11	
R556	QRD141J-222SY	**	"	"	
R557	QRD141J-682SY	6.8 kΩ	"	"	
R558	QRD141J-682SY	"	"	"	
R559	QRD141J-103SY	10 kΩ	17	"	
R560	QRD141J-103SY	**	"	"	
R561	QRD141J-562SY	5.6 kΩ	"	"	
R562	QRD141J-562SY	**	"	"	
R563	QRD141J-102SY	1 kΩ	"	"	
R564	QRD141J-102SY	**	**	"	
R701	QRD141J-222SY	2.2 kΩ	"	"	
R702	ORD141J-222SY	"	"	••	
R703	QRD141J-473SY	47 kΩ	"	"	
R704	QRD141J-473SY	"	"	**	
R705	QRD149J-102S	1 kΩ	"	<i>"</i>	
R706	QRD149J-102S	"	"	" Ā	
R707	QRD149J-102S	"	**	<i>"</i>	
R708	QRD149J-102S	"	"	" A " A	
R709	QRD149J-220S	22 Ω	"	″ ▲	

⚠: Safety Parts

Resistors

	Item No. Part Number Rating Description					
R710	Part Number QRD149J-220S	22 Ω	1/4 W	Description	Α	
R711	QRD149J-220S	22.32	1/4 VV	Carbon "	\triangle	
R712	QRD149J-220S	**	"	"	\triangle	
R713	QRD149J-150S	15 Ω	"	"	$\overline{\mathbb{A}}$	
R714	QRD149J-150S		. "	"	△ △ △ △	
R715	QRD149J-301S	300 Ω	,,	",	\triangle	
R716 R717	QRD149J-301S QRD141J-223SY	22 kΩ	,,	,,	213	
R719	QRD149J-220S	22 Ω	,,	,,	\triangle	
R720	QRD149J-220S	"	"	"	$\overline{\mathbb{A}}$	
R721	QRD149J-100S	10 Ω	"	"	Δ	
R722	QRD149J-100S	"	",	"		
R723 R724	QRD149J-100S QRD149J-100S	,,	",	"	A	
R725	QRD141J-132SY	1.3 kΩ	,,	,,	<u>\</u>	
R726	QRD141J-132SY	11	"	"		
R727	QRG017J-822S	8.2 kΩ	1 W	Oxide Metal Film	1	
R728	QRG017J-822S	87.	"	"		
R729	QRD149J-181S	180 Ω	1/4 W	Carbon	\triangle	
R730 R731	QRD149J-181S	500.0	"	,,	<u> </u>	
R731	QRD149J-561S QRD149J-561S	560 Ω	"	"	<u>∧</u> <u>∧</u> <u>∧</u>	
R733	QRD141J-473SY	47 kΩ	"	"	<u>~</u>	
R734	QRD141J-473SY	**	"	,,		
R735	QRD149J-181S	180 Ω	"	"	Δ	
R736 R737	QRD149J-181S	470.0	4 /0 /4/		Δ	
R738	QVZ3501-471 QVZ3501-471	470 Ω	1/2 W	Variable "		
R739	QRD141J-471SY	"	1/4 W	Carbon		
R740	QRD141J-471SY	**	"	"		
R741	SDT35	350 Ω	1 W	Thermistor		
R742	SDT35	"	"			
R743 R744	QRD141J-391SY QRD141J-391SY	390 Ω	1/4 W	Carbon		
R745	QRD141J-243SY	24 kΩ	"	"		
R746	QRD141J-243SY	**	"	"		
R747	QRD149J-122S	1.2 kΩ	"	"	\triangle	
R748	QRD149J-122S	"	",	"	À	
R749 R750	QRD149J-101S QRD149J-101S	100 Ω	"	.,		
R751	QRD149J-100S	10 Ω	**	"	<u> </u>	
R752	QRD149J-100S	""	"	"	Λ	
R753	QRD149J-100S	**	"	**	$\overline{\mathbb{A}}$	
R754	QRD149J-100S	"			Ÿ	
R755	QRM024K-R22	0.22 Ω	2 W	Metal Plate		
R756 R757	QRM024K-R22 QRM024K-R22	"	",	",	\triangle	
R758	QRM024K-R22	"	"	,,	\bigwedge_{Λ}	
R759	QRD149J-4R7S	4.7 Ω	1/4 W	Carbon	$\overline{\mathbb{A}}$	
R760	QRD149J-4R7S	**	"	"	\triangle	
R761	QRZ0050-100	10 Ω	1/2 W			
R762 R801	QRZ0050-100 QRG017J-680S	68 Ω	1 W	Oxide Metal Film	<u> </u>	
R801	QRG017J-680S	98 77	,,,	"	Λ	
R803	QRD129J-392	3.9 kΩ	1/2 W	Carbon	$\overline{\mathbb{A}}$	
R804	QRD129J-392	"	**	"	Δ	
R807	QRG027J-121	120 Ω	2 W	Oxide Metal Film	Δ	
R808 R809	QRG027J-121 QRD141J-332SY	" 3.3 kΩ	 1/4 W	Carbo-	<u>∧</u>	
R811	QRD129J-2R7	2.7 Ω	1/4 W	Carbon "	$\stackrel{\wedge}{\wedge}$	
R812	QRD129J-2R7	"	"	"		
R851	QRD141J-272SY	2.7 kΩ	1/4 W	"		
R852	QRD141J-272SY	"	**	**		
R853 R854	QRD141J-390SY	39 Ω	,,	"		
R855	QRD141J-390SY QRD141J-103SY		**	"		
R856	QRD141J-103SY	10 kΩ		,,		
R857	QRD141J-473SY	47 kΩ	**	"		
R858	QRD141J-473SY	"	**	"		
R901	QRD141J-222SY	2.2 kΩ	••	"		

Resistors

Item No.	Part Number	Ra	ting	Description
R902	QRD141J-222SY	2.2 kΩ	1/4 W	Carbon
R903	QRD141J-102SY	$1 k\Omega$	er .	n.
R904	QRD141J-102SY	"		"
R905	QRD141J-123SY	12 kΩ		11
R906	QRD141J-123SY	"	"	"
R907	QRD141J-103SY	10 kΩ	"	•
R908	QRD141J-332SY	3.3 kΩ		
R909	ORD141J-683SY	68 kΩ	11	"
R910	QRD141J-563SY	56 kΩ		"
R911	QRD141J-183SY	18 kΩ	"	
R912	QRD141J-683SY	68 kΩ	"	*
R913	QRD141J-153SY	15 kΩ	"	· ·
R914	QRD141J-184SY	180 kΩ	T "	"
R915	QRG017J-471S	470 Ω	1 W	Oxide Metal Film,
R916	QRD141J-151SY	150 Ω	1/4 W	Carbon
R917	QRD141J-223SY	22 kΩ	"	e de la companya de l
R918	QRD141J-104SY	100 kΩ	"	
R919	QRD141J-104SY	"	"	"
R920	QRD141J-104SY	"	"	14 14 ST
R921	QRD141J-563SY	56 kΩ	"	ally flex the state to the material
R951	QRD129J-221	220 Ω	1/2 W	" /
R952	QRD129J-221	"	"	" /
R953	QRD141J-332SY	3.3 kΩ	1/4 W	"
R954	QRD141J-332SY	"		"
R955	QRD141J-681SY	680 Ω	"	*
R956	QRD141J-681SY	"	"	и.

Others

Item No.	Part Number	Rating	Description
	EWS014-027		Socket Wire
	E300821-001		LED Holder
	EWS012-032		Socket Wire Ass'y
	EWS016-019		"
RY901	ESK6D24-213	Magazia	Relay Switch
- 17 N	EWS017-017		Socket Wire Ass'y
	EWS012-033		
	EWR24J-10DD		Flat Cable
	EWR25J-10DD		The state of the s
	E03572-007EM	April 11 North	Speaker Terminal
	E300160-004		Heat-sink
	E48965-002		Fuse Clip
	E61537-002		Heat-sink
		11 -11	
SPK	QSP0229-019		Push Switch
		te Albanas an albanas a	(Speaker select)

⚠: Safety Parts

8-(3) TAP-283 S.E.A. (Sound Effect Amplifier) Controls P.C. Board Ass'y

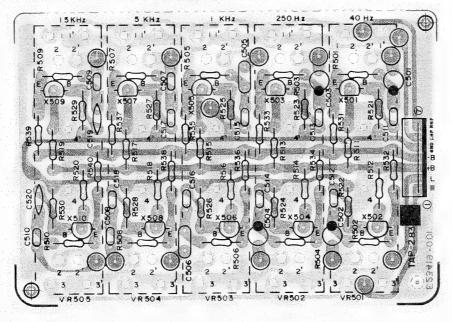


Fig. 18

Transistors

Item No.	Part Number		Rating	Descrip	tion
111111111111111111111111111111111111111		Pc	fT		Maker
X501	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X502	2SC1775AV(F)	- 11	"		"
X503	2SC1775AV(F)	"	"	"	"
X504	2SC1775AV(F)	"	**	"	.,,
X505	2SC1775AV(F)	"	16	"	"

Transistors

Item No.	Part Number	R	ating	Descrip	tion
		Pc	fT		Maker
X506	2SC1775AV(F)	0.2 W	200 MHz	Silicon	Hitachi
X507	2SC1775AV(F)	"	rr	"	10.77
X508	2SC1775AV(F)	**	"	"	1
X509	2SC1775AV(F)	2.5		"	- 11
X510	2SC1775AV(F)		"	1	

Capacitors

- Cupution						
Item No.	Part Number	Rat	ing	Description		
C501	QET61HR-475Z	4.7 μF	50 V	Electrolytic		
C502	QET61HR-475Z	"	**	"		
C503	QET61HR-474Z	0.47 μF	"	"		
C504	QET61HR-474Z	"	"	"		
C505	QFM31HK-124Z	0.12 μF	"	Mylar		
C506	QFM31HK-124Z	"	"	"		
C507	QFM31HK-273Z	0.027 µF	"	"		
C508	QFM31HK-273Z	**	**	"		
C509	QFM31HK-562Z	5600 pF	"	"		
C510	QFM31HK-562Z	**	"	"		
C511	QFM31HK-223Z	0.022 µF	"	**		
C512	QFM31HK-223Z	"	"	"		
C513	QFM31HK-822Z	8200 pF	"	"		
C514	QFM31HK-822Z	**	"	"		
C515	QFM31HK-332Z	3300 pF	**	"		
C516	QFM31HK-332Z	"	"	"		
C517	QFM31HK-102Z	1000 pF	**	"		
C518	QFM31HK-102Z	"	**	"		
C519	QCS21HJ-681	680 pF	"	Ceramic		
C520	QCS21HJ-681	**	"	"		

Resistors

Item No.	Part Number	Rat	ting	Description
R501	QRD141J-122SY	1.2 kΩ	1/4 W	Carbon
R502	QRD141J-122SY	"	"	"
R503	QRD141J-122SY	"	"	"
R504	QRD141J-122SY	"	"	"
R505	QRD141J-122SY	"	"	**
R506	QRD141J-122SY	"	87	**
R507	QRD141J-122SY	"	"	, ,,
R508	QRD141J-122SY	**	"	"
R509	QRD141J-122SY	"	"	"
R510	QRD141J-122SY	"	"	
R511	QRD141J-391SY	390 Ω	"	**
R512	QRD141J-391SY	**	"	"
R513	QRD141J-391SY	11	"	**
R514	QRD141J-391SY	"	"	**
R515	QRD141J-391SY	"	**	"

Resistors

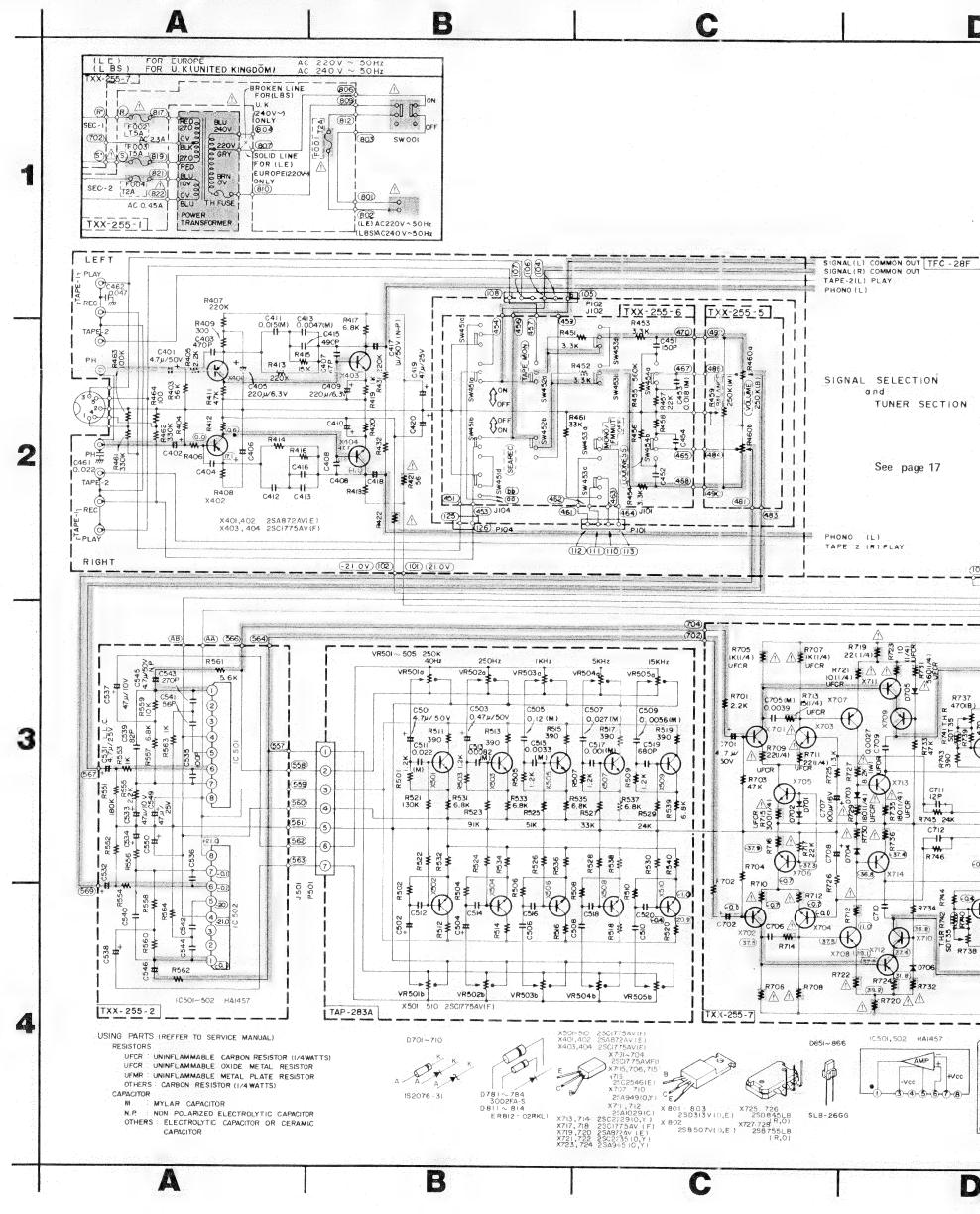
Item No.	Part Number	Ra	ting	Description
R516	QRD141J-391SY	390 Ω	1/4 W	Carbon
R517	QRD141J-391SY	**	"	"
R518	QRD141J-391SY	**	"	"
R519	QRD141J-391SY	"	"	"
R520	QRD141J-391SY	"	п	"
R521	QRD141J-134SY	130 kΩ	"	"
R522	QRD141J-134SY	"	"	"
R523	QRD141J-913SY	91 kΩ	"	"
R524	QRD141J-913SY	**	"	
R525	QRD141J-513SY	51 kΩ	"	"
R526	QRD141J-513SY	"	"	п
R527	QRD141J-333SY	33 kΩ	-	"
R528	QRD141J-333SY		"	"
R529	QRD141J-243SY	24 kΩ	"	"
R530	QRD141J-243SY	60	"	"
R531	QRD141J-682SY	6.8 kΩ	"	"
R532	QRD141J-682SY	**	-	"
R533	QRD141J-682SY	"	"	"
R534	QRD141J-682SY	"	"	"
R535	QRD141J-682SY	"	"	"
R536	QRD141J-682SY	17	**	"
R537	QRD141J-682SY	"	н	"
R538	QRD141J-682SY	"	"	п
R539	QRD141J-682SY	**	"	"
R540	QRD141J-682SY	"	"	"

Others

Item No.	Part Number	Rating	Descripti	on
VR501	QVZ5010-002		Variable	(40 Hz)
VR502	QVZ5010-002		11	(250 Hz)
VR503	QVZ5010-002		"	(1 kHz)
VR504	QVZ5010-002		"	(5 kHz)
VR505	QVZ5010-002		"	(15 kHz)
	QMV5005-007		Pin Plug .	Ass'y

9. Accessories List

Item No.	Part Number	Description	Q'ty
1	E30580-820A	Instruction Book	1
2	BT20013C	Warranty Card (for U. K. only)	1
3	E03614-004	FM Antenna	1
4	E41202-2	Envelope for Instruction Book	1



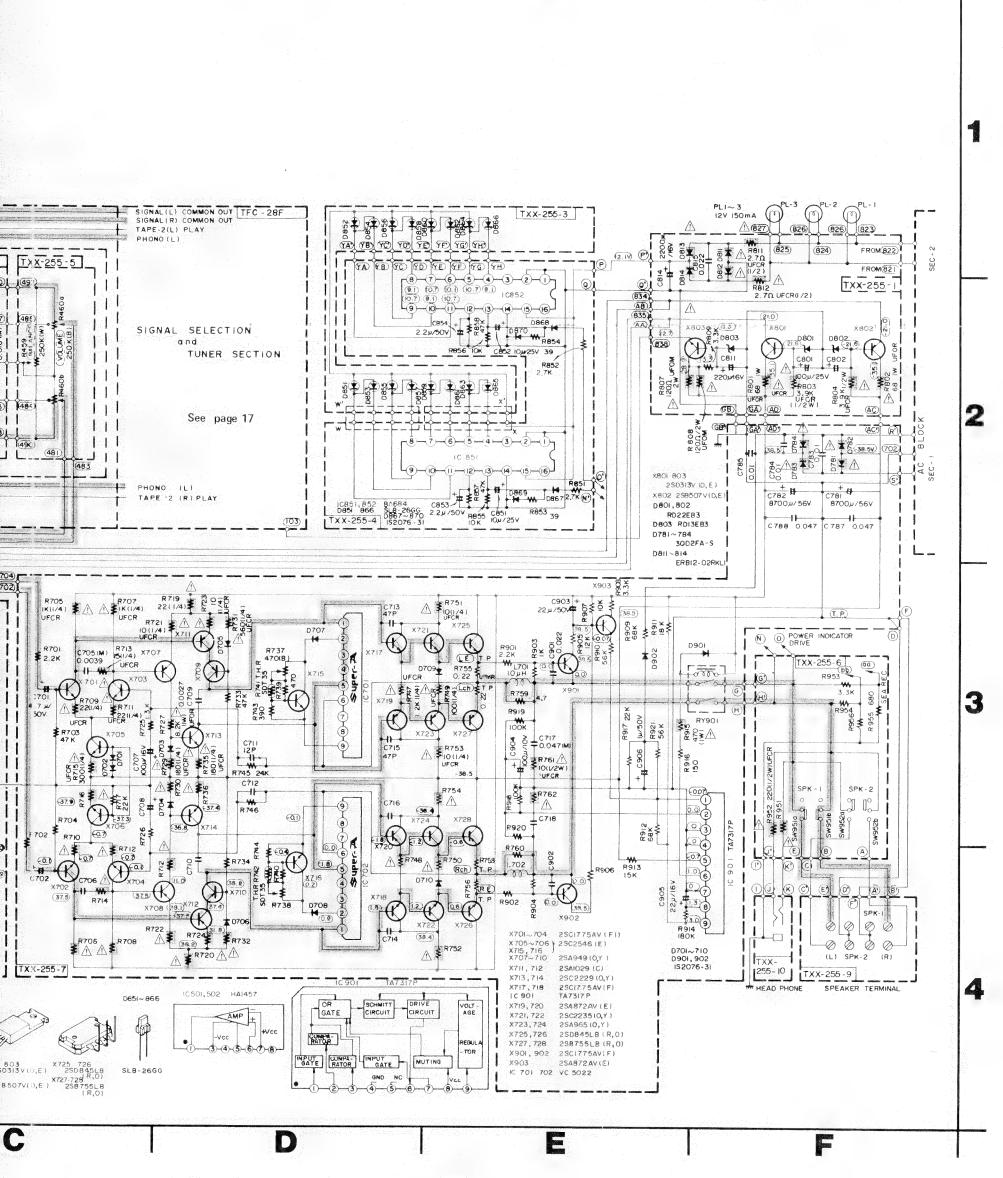
Printed Circuit Board Ass'y Locations

P.C. Board Ass'y	Description	Page
TFC-28E	FM/AM Tuner and Equalizer Amp. P.C. Board Ass'y	8
TXX-255	Main Amp., Power Supply and Other Functions Split P.C. Board Ass'y	11

Notes:

- 1. ___ shows DC voltage to the chassis with no signal input.
- 2. * shows DC voltage to the chassis when 10 mV antenna input applied.
- 3. Voltage values in are positive.
- 4. Voltage values in ____ are negative.
- 5. —— indicates positive B power supply.
- 6. indicates negative B power supply.
- 7. indicates signal path.

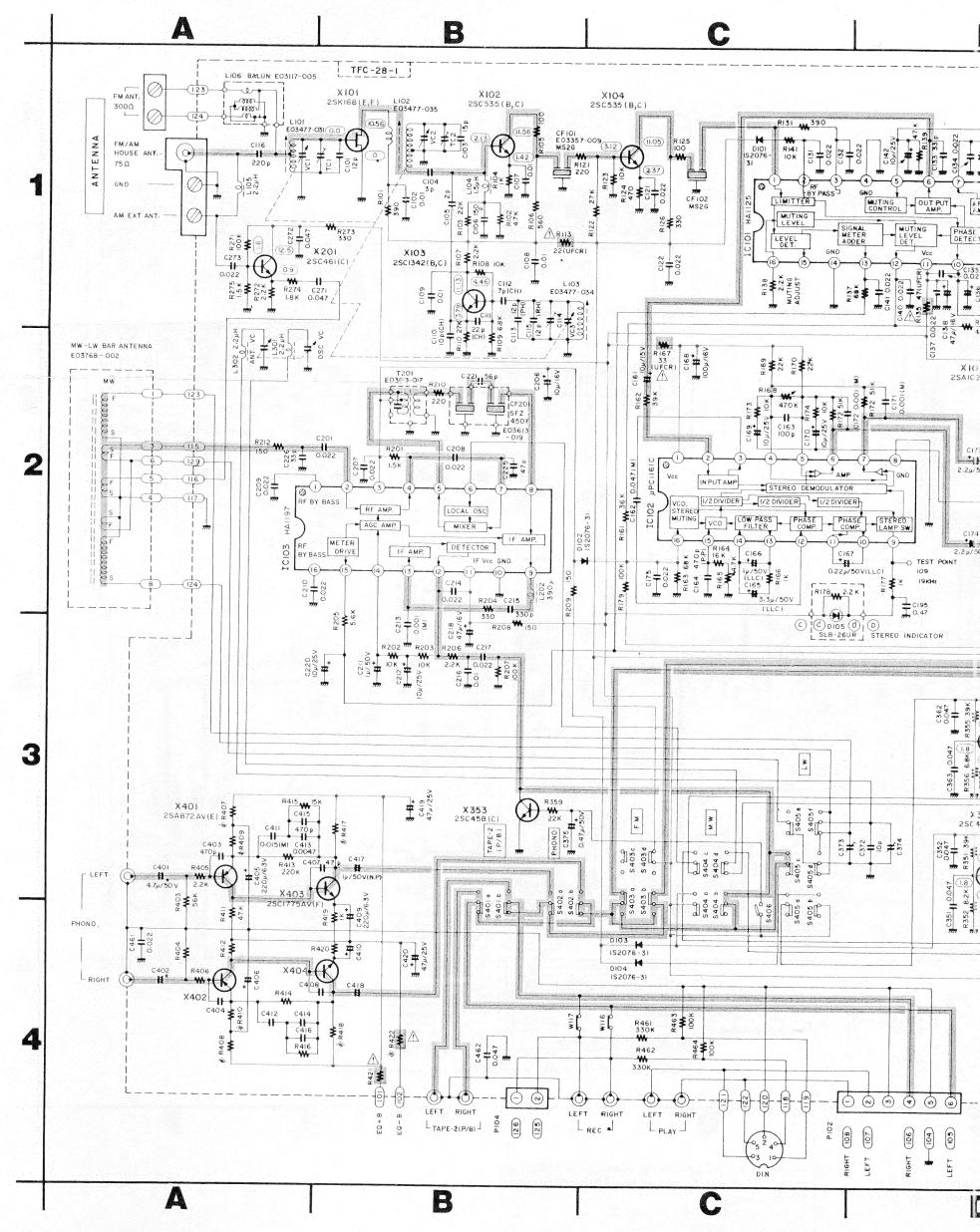
- 8. When replacing the those marked with to ensure safety.
- 9. Parts in red indicate
- This is the standard.
 The design and connotice.



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- 8. When replacing the parts in the darkened area () and those marked with \triangle , be sure to use the designated parts to ensure safety.
- 9. Parts in red indicate transistors or ICs.
- This is the standard circuit diagram.
 The design and contents are subject to change without notice.

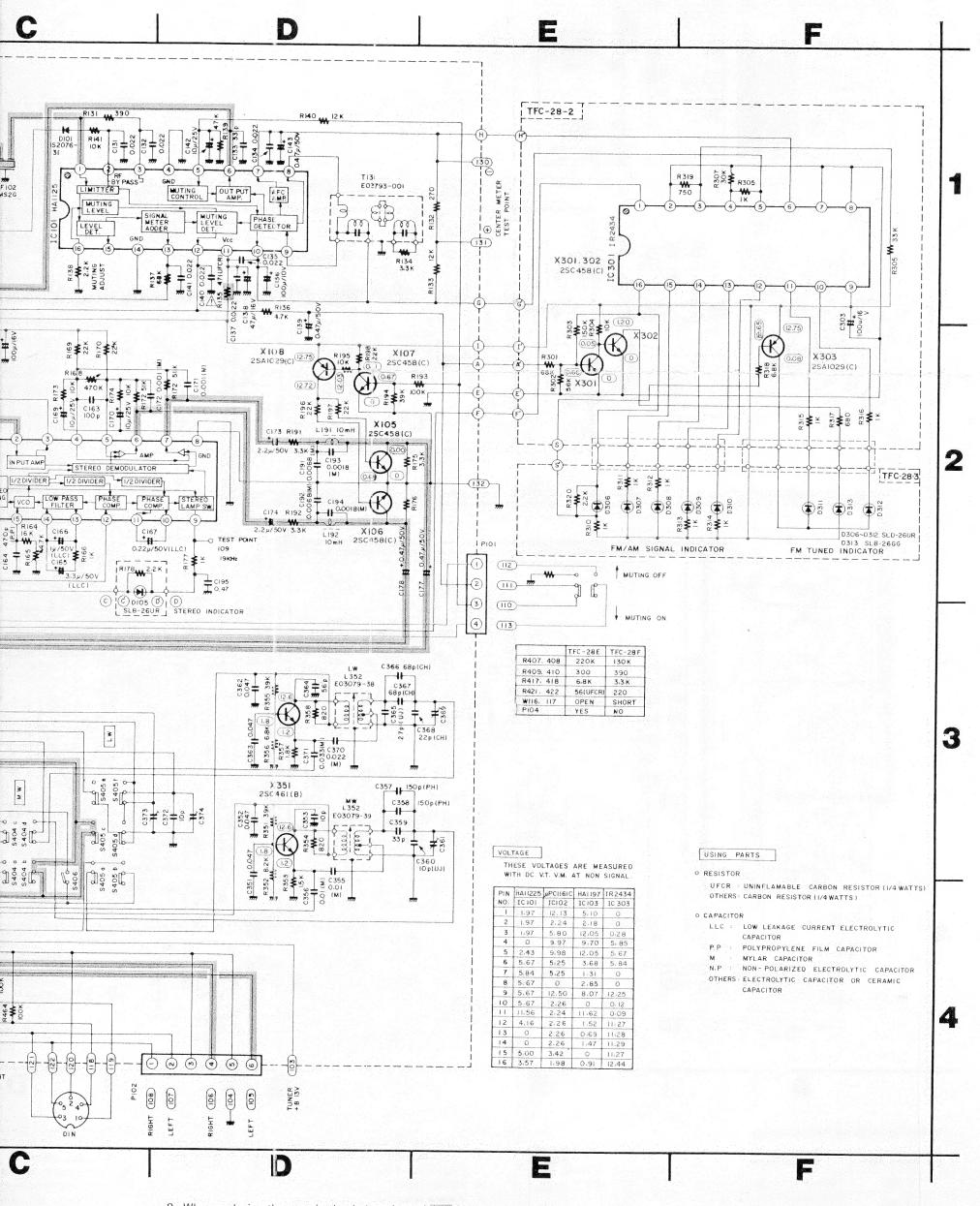


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Notes:

- shows DC voltage to the chassis with no signal input.
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- Voltage values in ____ are positive.
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- 4. Voltage values in ____ are negative.5. ____ indicates positive B power supply.
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11. Packing Materials and Part Numbers

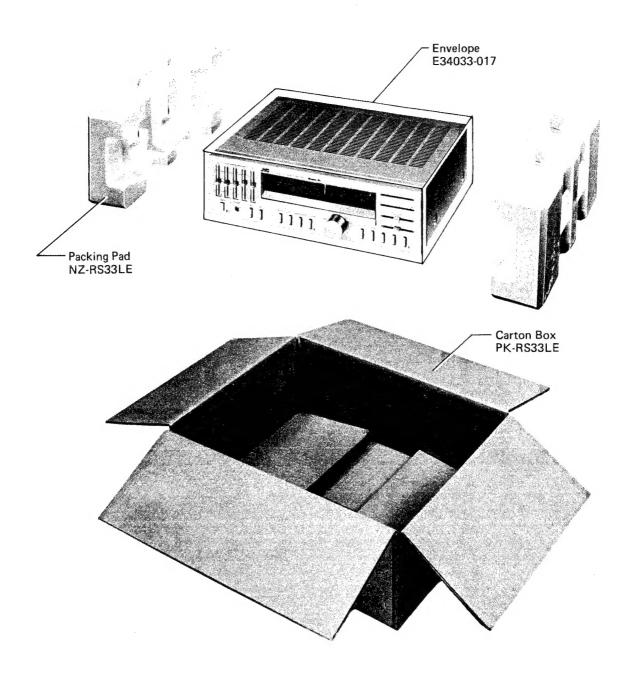


Fig. 19

Power Specifications

Areas	Line Voltage & Frequency	Power Consumptor
Continental Europe U.K. and Australia	AC 220 V ~, 50 Hz AC 240 V ~, 50 Hz	390 W 390 W



VICTOR COMPANY OF JAPAN, LIMITED, TOKYO, JAPAN

